

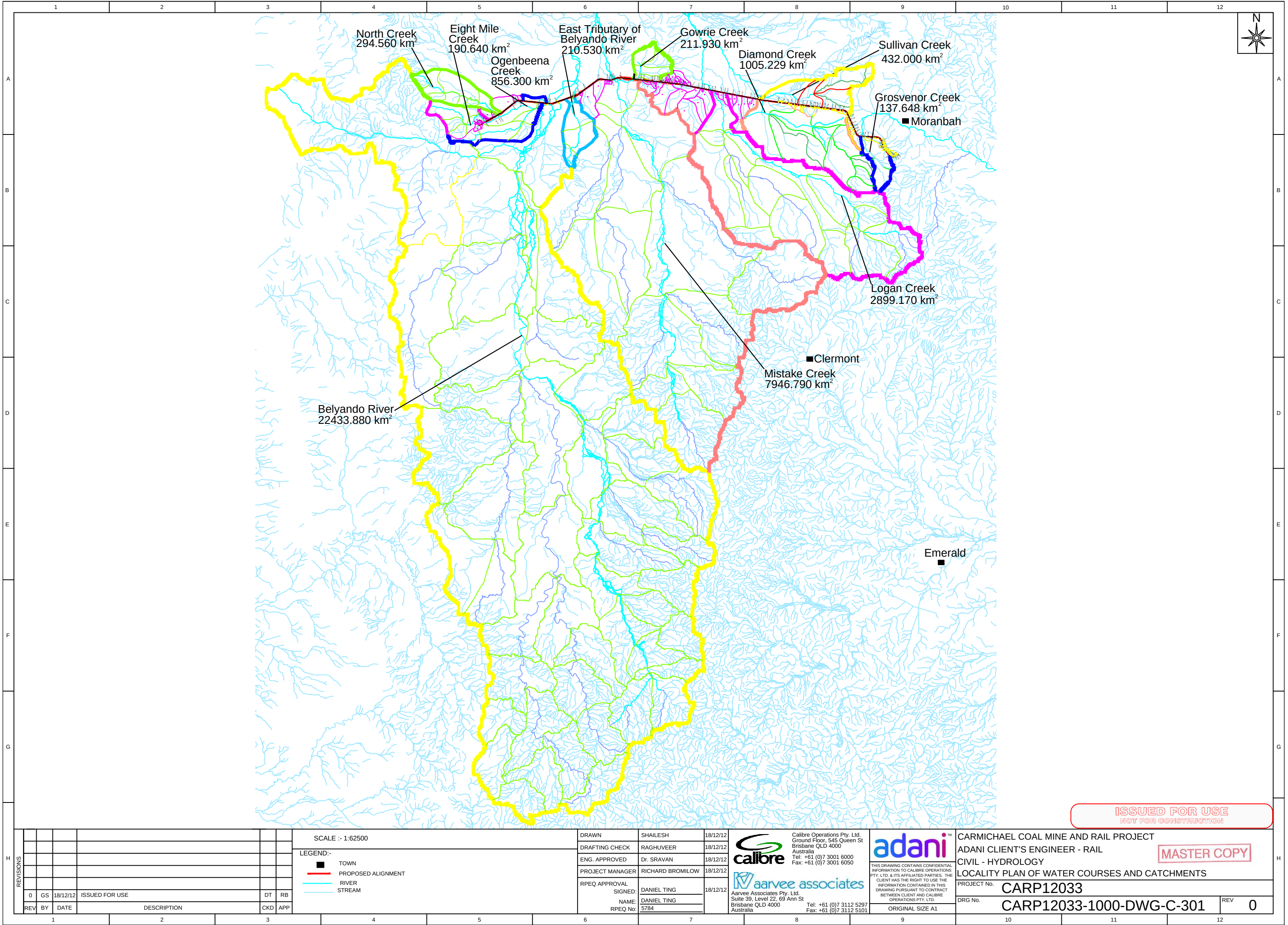
Hydrology Drawings

Carmichael Coal Mine & Rail Project Front End Engineering Design Report - RAIL

Adani Mining Pty Ltd

CARP12033-REP-G-100 Rev 0
VOLUME 4 - DRAWINGS





REVISIONS						
0	GS	18/12/12	ISSUED FOR USE			DT RB
REV	BY	DATE	DESCRIPTION			CKD APP

SCALE :- 1:62500

LEGEND:-

- TOWN
- PROPOSED ALIGNMENT
- RIVER
- STREAM

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL	SIGNED: DANIEL TING	18/12/12
	NAME: DANIEL TING	
	RPEQ No: 5784	

Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3001 6000
Fax: +61 (0)7 3001 6050

Aarvee Associates Pty. Ltd.
Suite 39, Level 22, 69 Ann St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3112 5297
Fax: +61 (0)7 3112 5101

THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION TO CALIBRE OPERATIONS PTY. LTD. & ITS AFFILIATED PARTIES. THE CLIENT HAS THE RIGHT TO USE THE INFORMATION CONTAINED IN THIS DRAWING PURSUANT TO CONTRACT BETWEEN CLIENT AND CALIBRE OPERATIONS PTY. LTD.

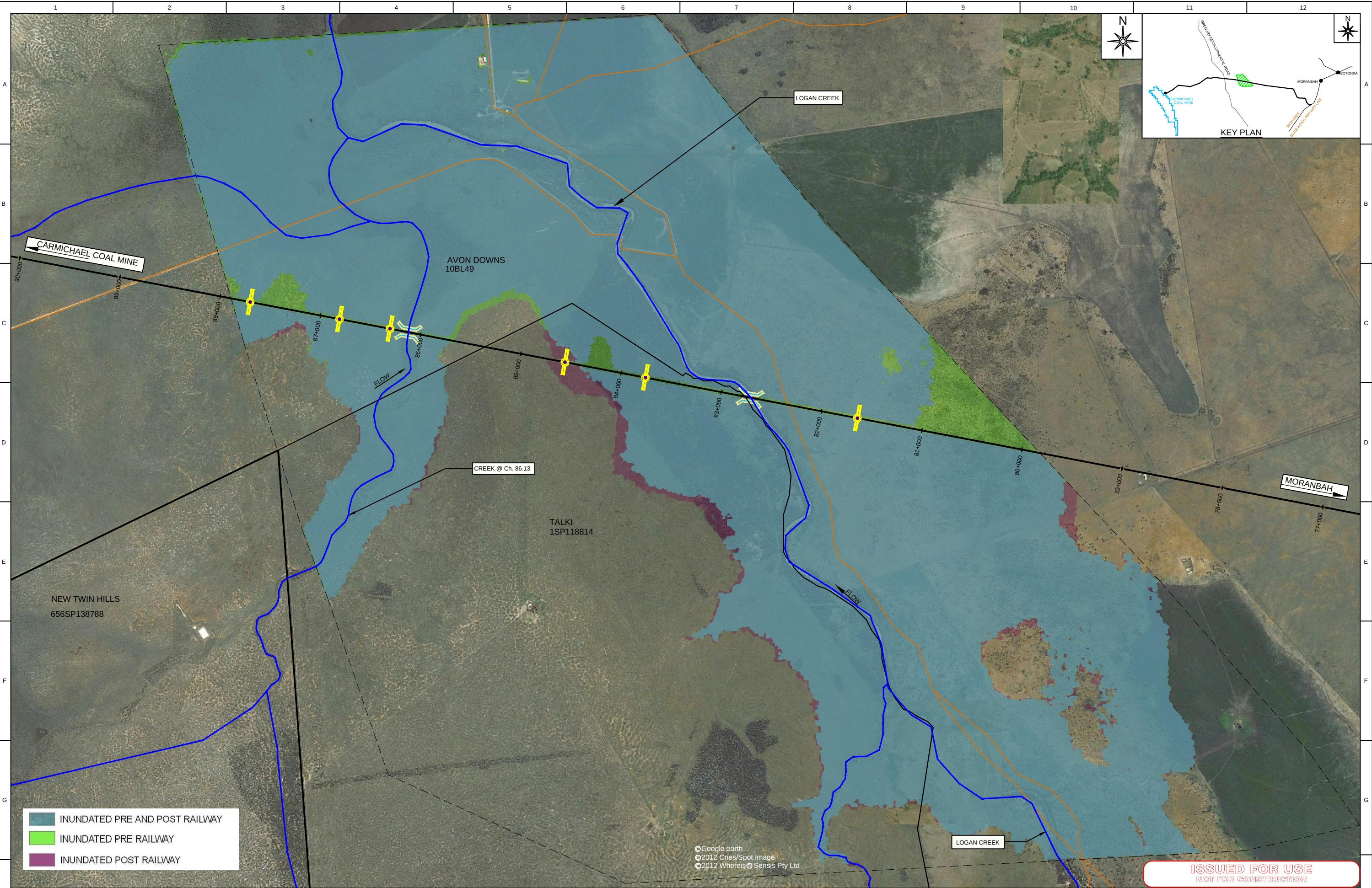
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
LOCALITY PLAN OF WATER COURSES AND CATCHMENTS

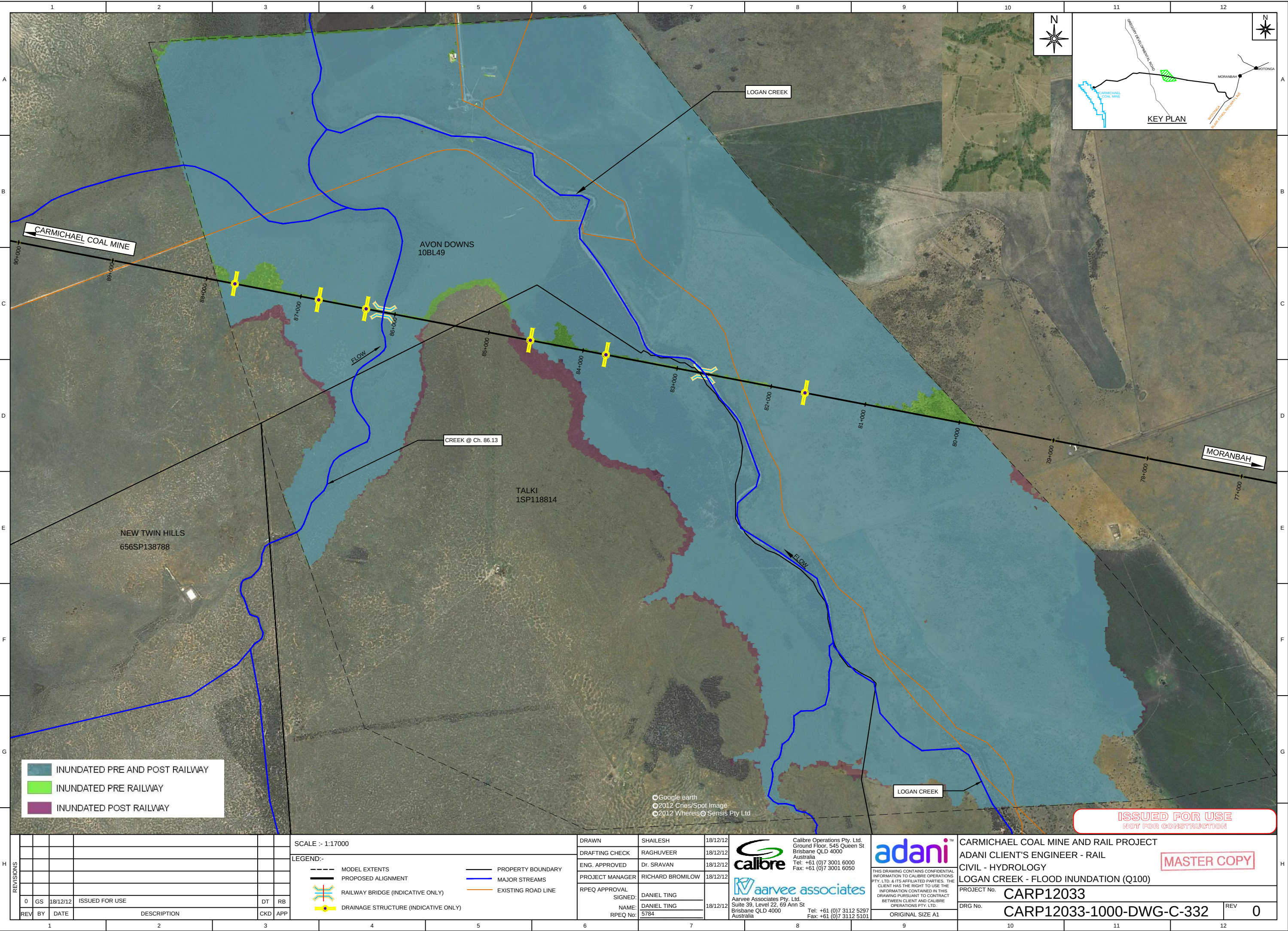
PROJECT No. **CARP12033**

DRG No. **CARP12033-1000-DWG-C-301** REV **0**

MASTER COPY



H REVISIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
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ISSUED FOR USE
NOT FOR CONSTRUCTION

REV	BY	DATE	DESCRIPTION	CKD	APP
0	GS	18/12/12	ISSUED FOR USE	DT	RB

SCALE :- 1:17000	
LEGEND:-	
	MODEL EXTENTS
	PROPOSED ALIGNMENT
	RAILWAY BRIDGE (INDICATIVE ONLY)
	DRAINAGE STRUCTURE (INDICATIVE ONLY)
	PROPERTY BOUNDARY
	MAJOR STREAMS
	EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVeer	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL	SIGNED: DANIEL TING	18/12/12
	NAME: DANIEL TING	
	RPEQ No: 5784	

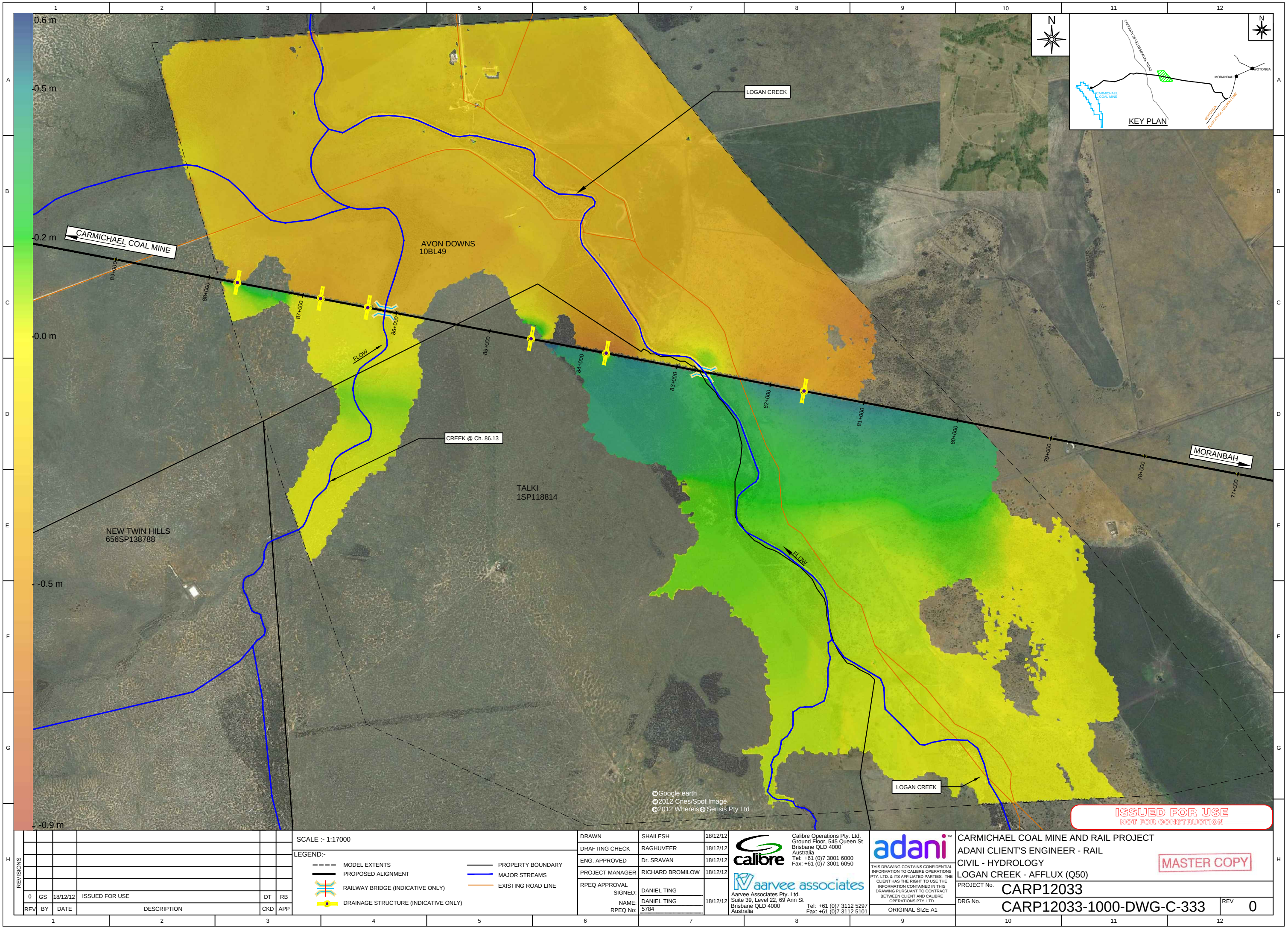
Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3001 6000
Fax: +61 (0)7 3001 6050

Aarvee Associates Pty. Ltd.
Suite 39, Level 22, 69 Ann St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3112 5297
Fax: +61 (0)7 3112 5101

THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION TO CALIBRE OPERATIONS PTY. LTD. & ITS AFFILIATED PARTIES. THE CLIENT HAS THE RIGHT TO USE THE INFORMATION CONTAINED IN THIS DRAWING PURSUANT TO CONTRACT BETWEEN CLIENT AND CALIBRE OPERATIONS PTY. LTD.

ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT	
ADANI CLIENT'S ENGINEER - RAIL	
CIVIL - HYDROLOGY	
LOGAN CREEK - FLOOD INUNDATION (Q100)	
PROJECT No.	CARP12033
DRG No.	CARP12033-1000-DWG-C-332
REV	0



REVISIONS											
0	GS	18/12/12	ISSUED FOR USE						DT	RB	
REV	BY	DATE	DESCRIPTION						CKD	APP	
1											

SCALE :- 1:17000	
LEGEND:-	
	MODEL EXTENTS
	PROPOSED ALIGNMENT
	RAILWAY BRIDGE (INDICATIVE ONLY)
	DRAINAGE STRUCTURE (INDICATIVE ONLY)
	PROPERTY BOUNDARY
	MAJOR STREAMS
	EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVeer	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL	SIGNED: DANIEL TING	18/12/12
	NAME: DANIEL TING	
	RPEQ No: 5784	

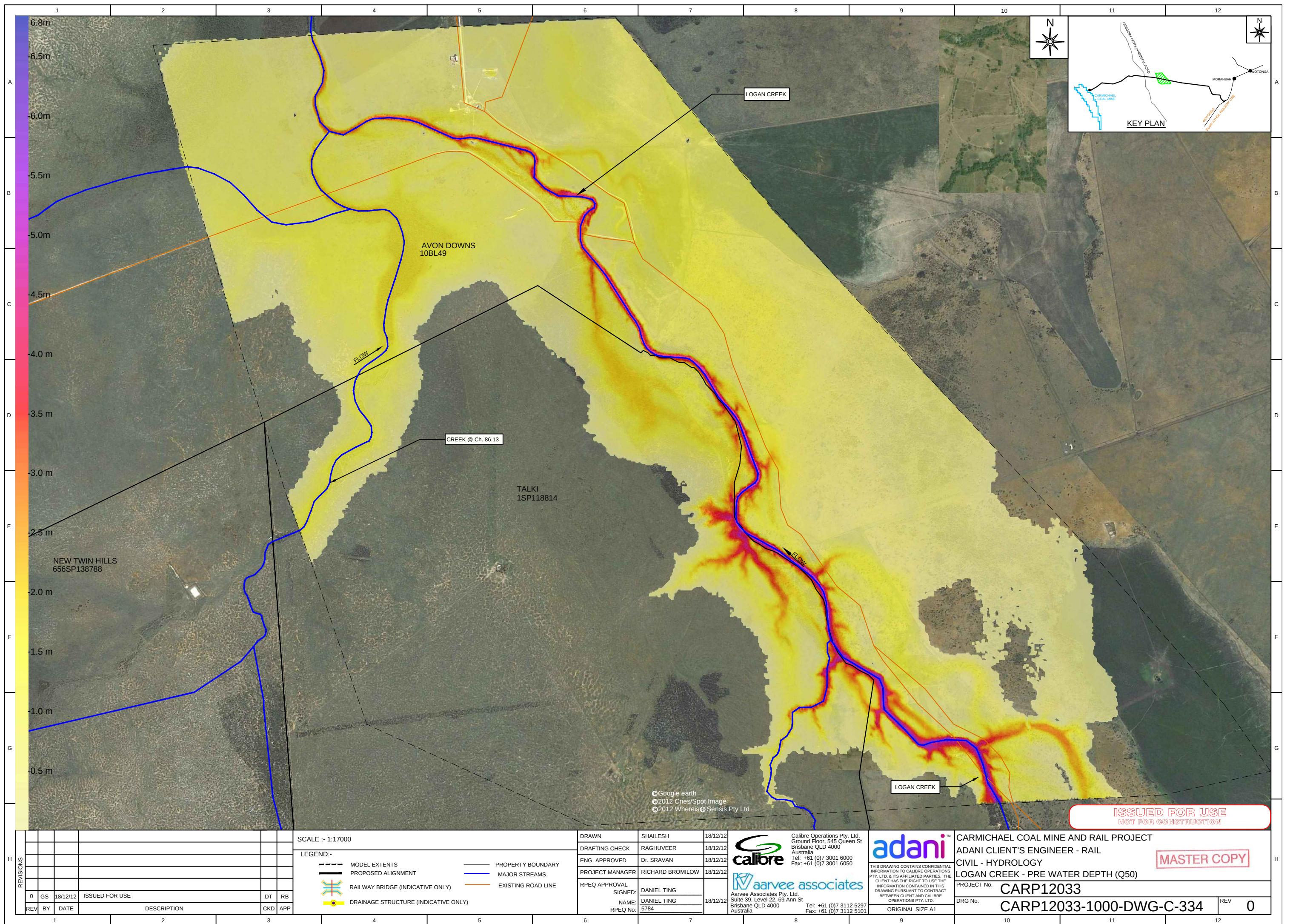
Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3001 6000
Fax: +61 (0)7 3001 6050

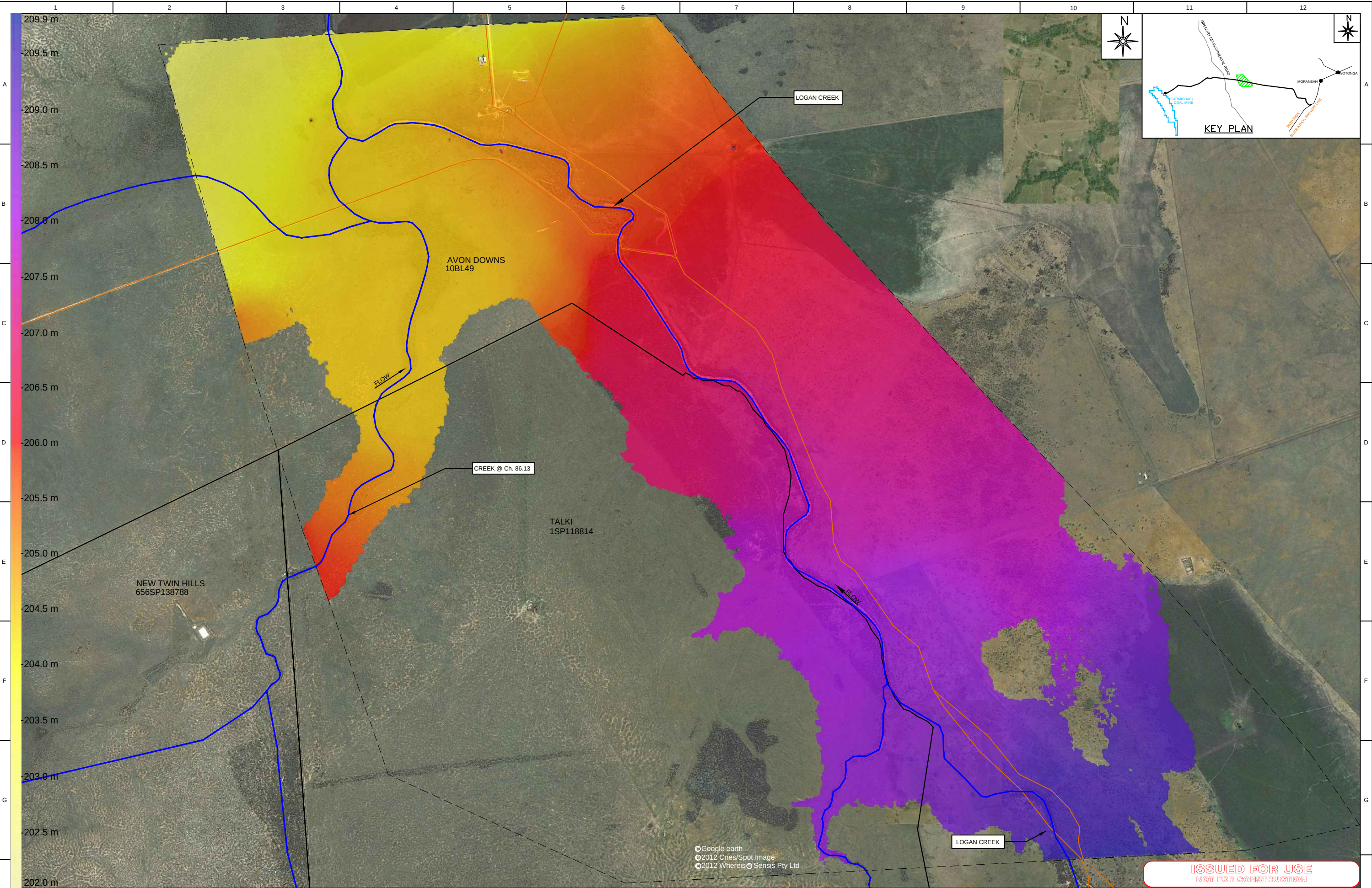
Aarvee Associates Pty. Ltd.
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Brisbane QLD 4000
Australia
Tel: +61 (0)7 3112 5297
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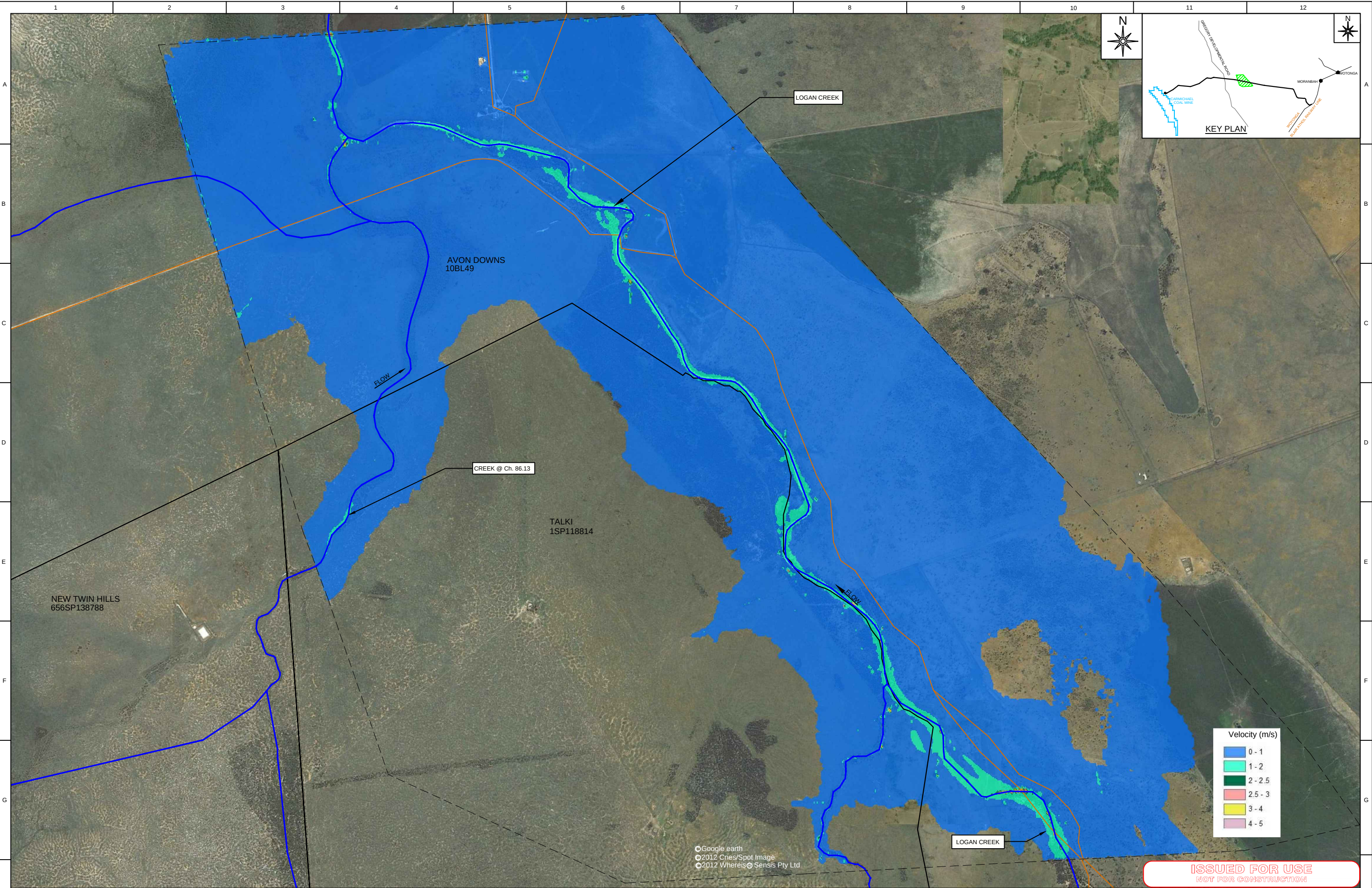
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT	
ADANI CLIENT'S ENGINEER - RAIL	
CIVIL - HYDROLOGY	
LOGAN CREEK - AFFLUX (Q50)	
PROJECT No.	CARP12033
DRG No.	CARP12033-1000-DWG-C-333
REV	0





REVISIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</
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REVISIONS

REV	BY	DATE	DESCRIPTION	CKD	APP
0	GS	18/12/12	ISSUED FOR USE	DT	RB

SCALE :- 1:17000

LEGEND:-

	MODEL EXTENTS		PROPERTY BOUNDARY
	PROPOSED ALIGNMENT		MAJOR STREAMS
	RAILWAY BRIDGE (INDICATIVE ONLY)		EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)		

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVeer	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL	SIGNED: DANIEL TING	
	NAME: DANIEL TING	18/12/12
	RPEQ No: 5784	

Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
Brisbane QLD 4000
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THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION TO CALIBRE OPERATIONS PTY. LTD. & ITS AFFILIATED PARTIES. THE CLIENT HAS THE RIGHT TO USE THE INFORMATION CONTAINED IN THIS DRAWING PURSUANT TO CONTRACT BETWEEN CLIENT AND CALIBRE OPERATIONS PTY. LTD.

ORIGINAL SIZE A1

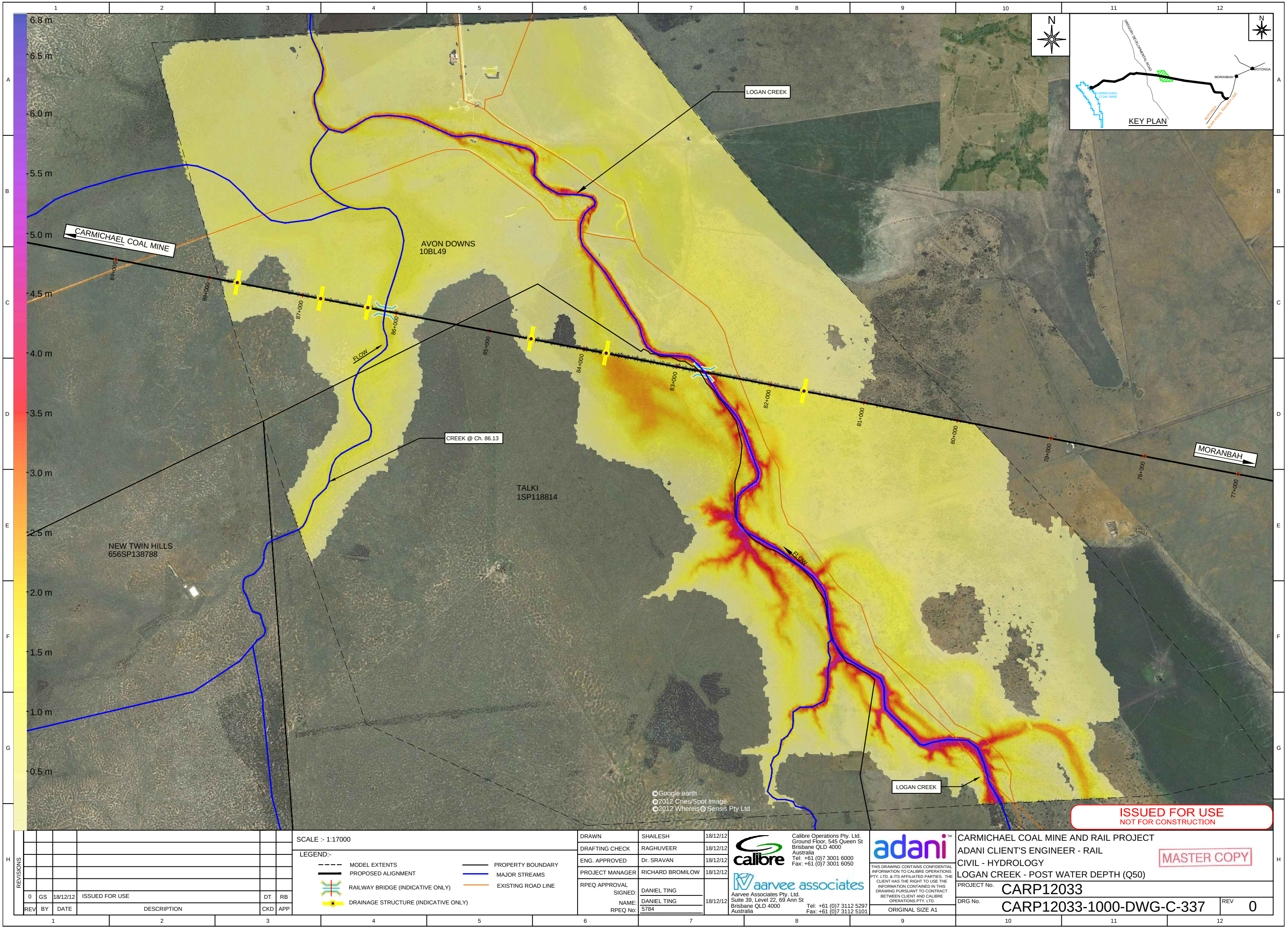
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
LOGAN CREEK - PRE VELOCITY (Q50)

PROJECT No. **CARP12033**
DRG No. **CARP12033-1000-DWG-C-336**

REV **0**

ISSUED FOR USE
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REVISIONS					
0	GS	18/12/12	ISSUED FOR USE	DT	RB
REV	BY	DATE	DESCRIPTION	CKD	APP

SCALE :- 1:17000	
LEGEND:-	
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---	EXISTING ROAD LINE

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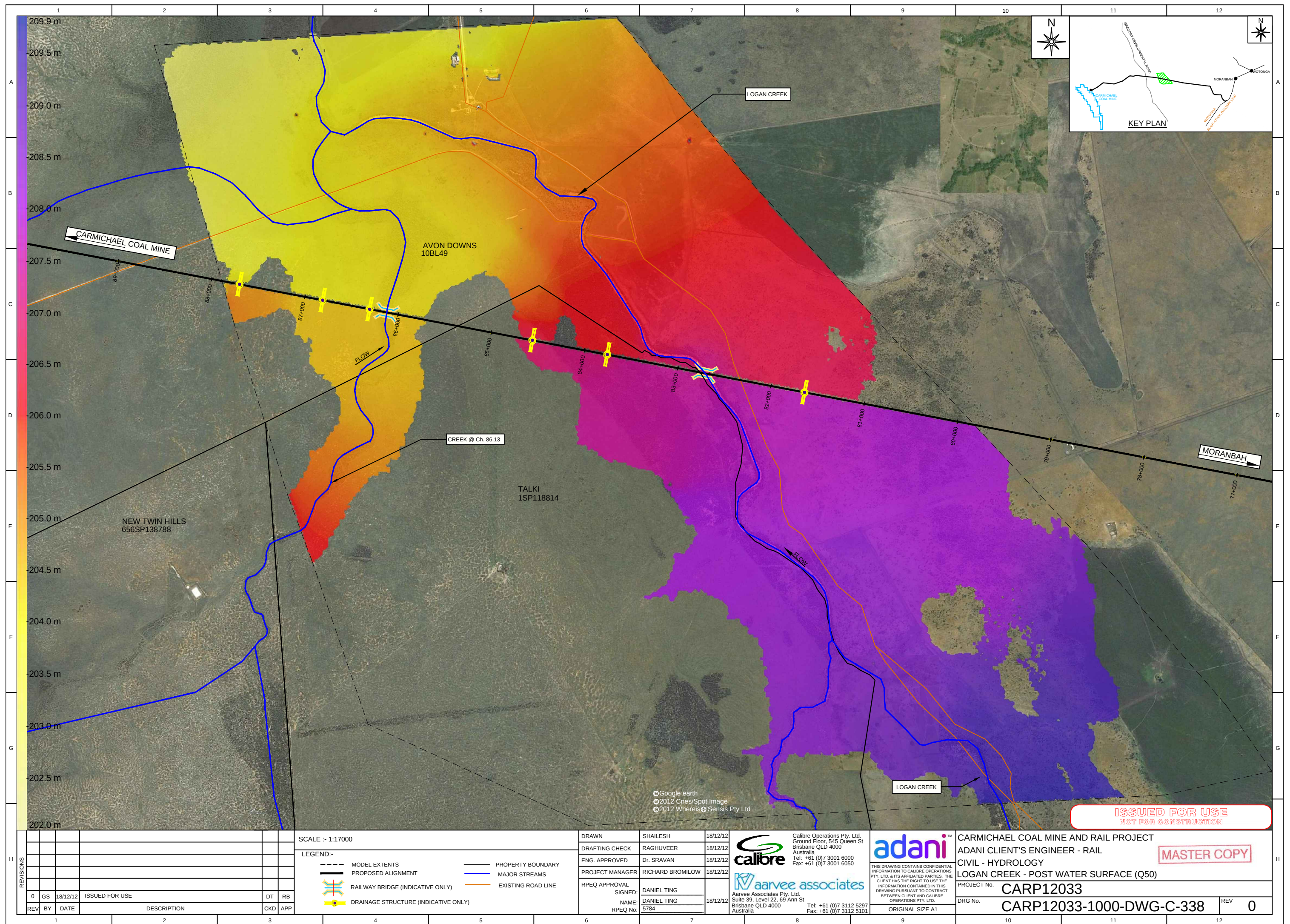
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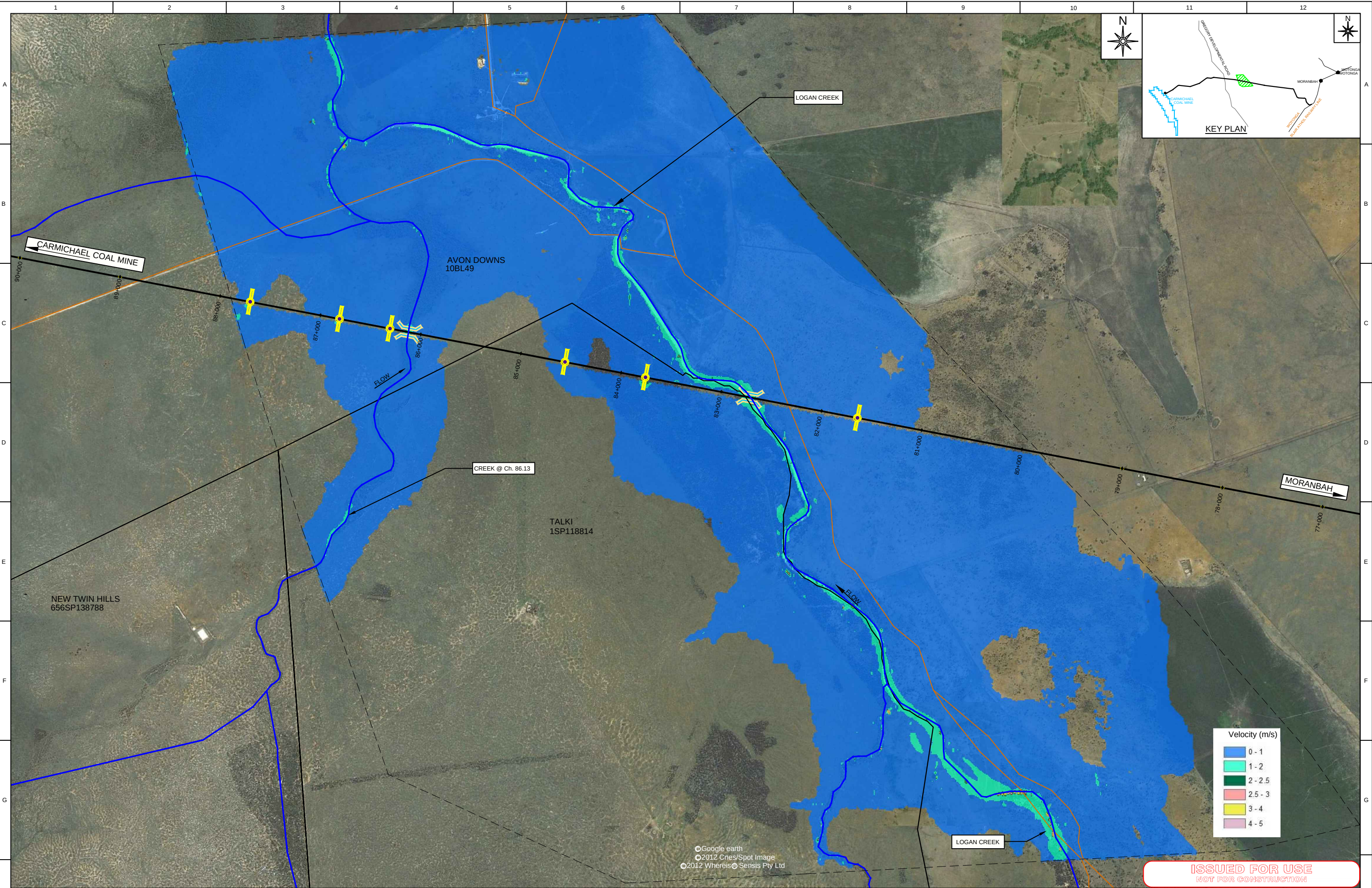


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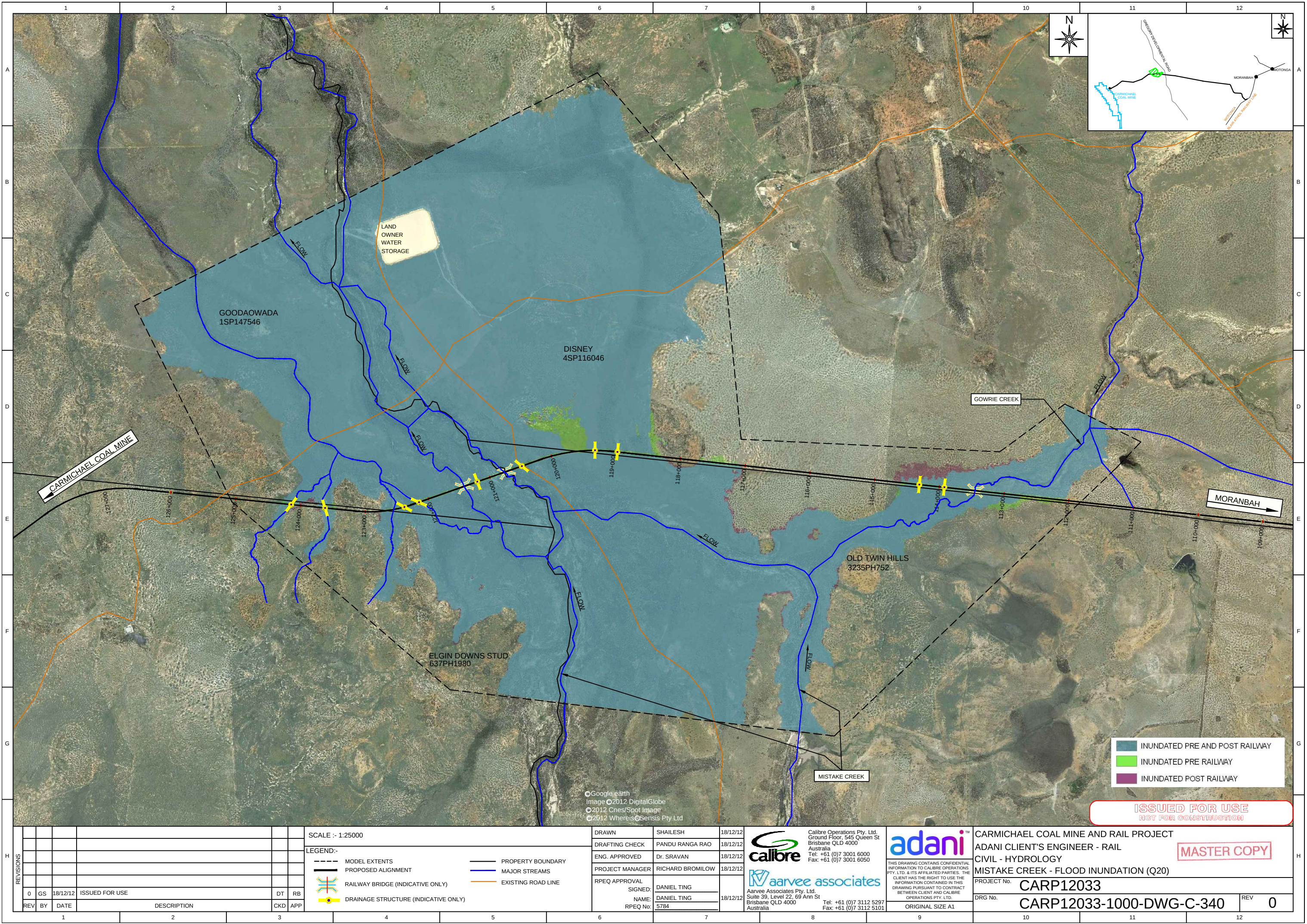
ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT	
ADANI CLIENT'S ENGINEER - RAIL	
CIVIL - HYDROLOGY	
LOGAN CREEK - POST WATER DEPTH (Q50)	
PROJECT No.	CARP12033
DRG No.	CARP12033-1000-DWG-C-337
REV	0





REVISIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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REVISIONS							
REV	BY	DATE	DESCRIPTION	CKD	APP		
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SCALE :- 1:25000			
LEGEND:-			
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---	DRAINAGE STRUCTURE (INDICATIVE ONLY)		

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	DR. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	
NAME:	DANIEL TING	18/12/12
RPEQ No:	5784	



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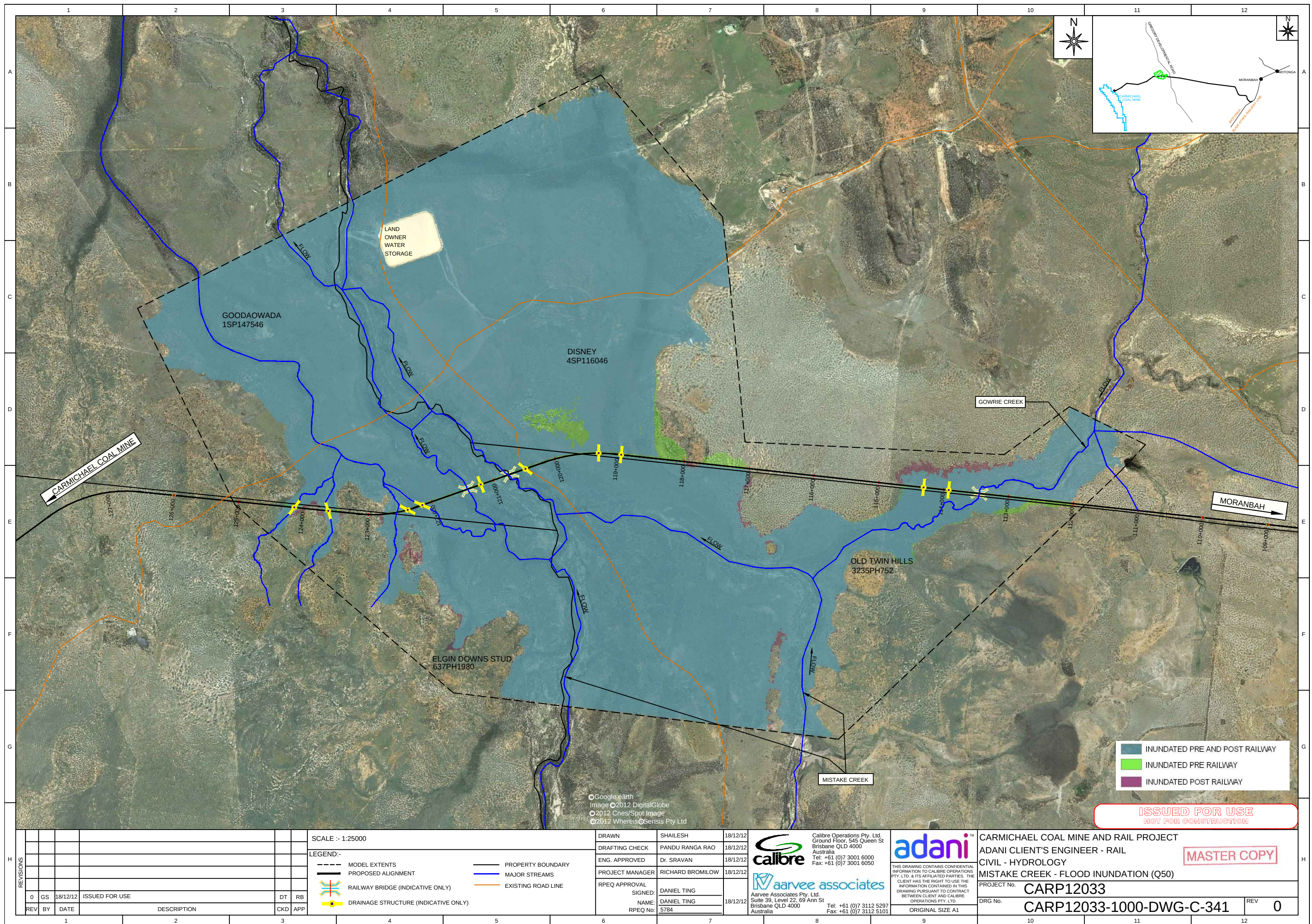
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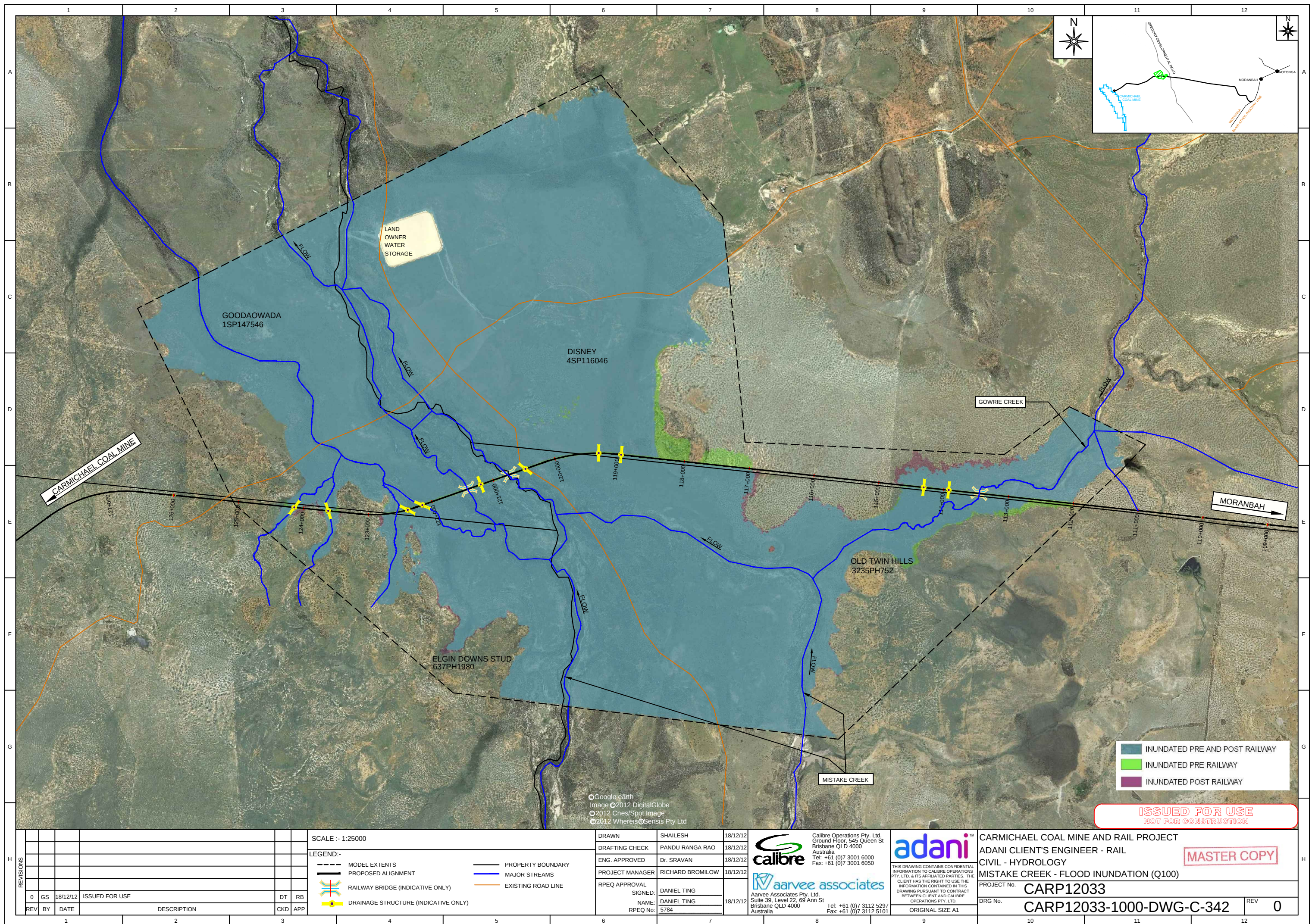
ORIGINAL SIZE A1

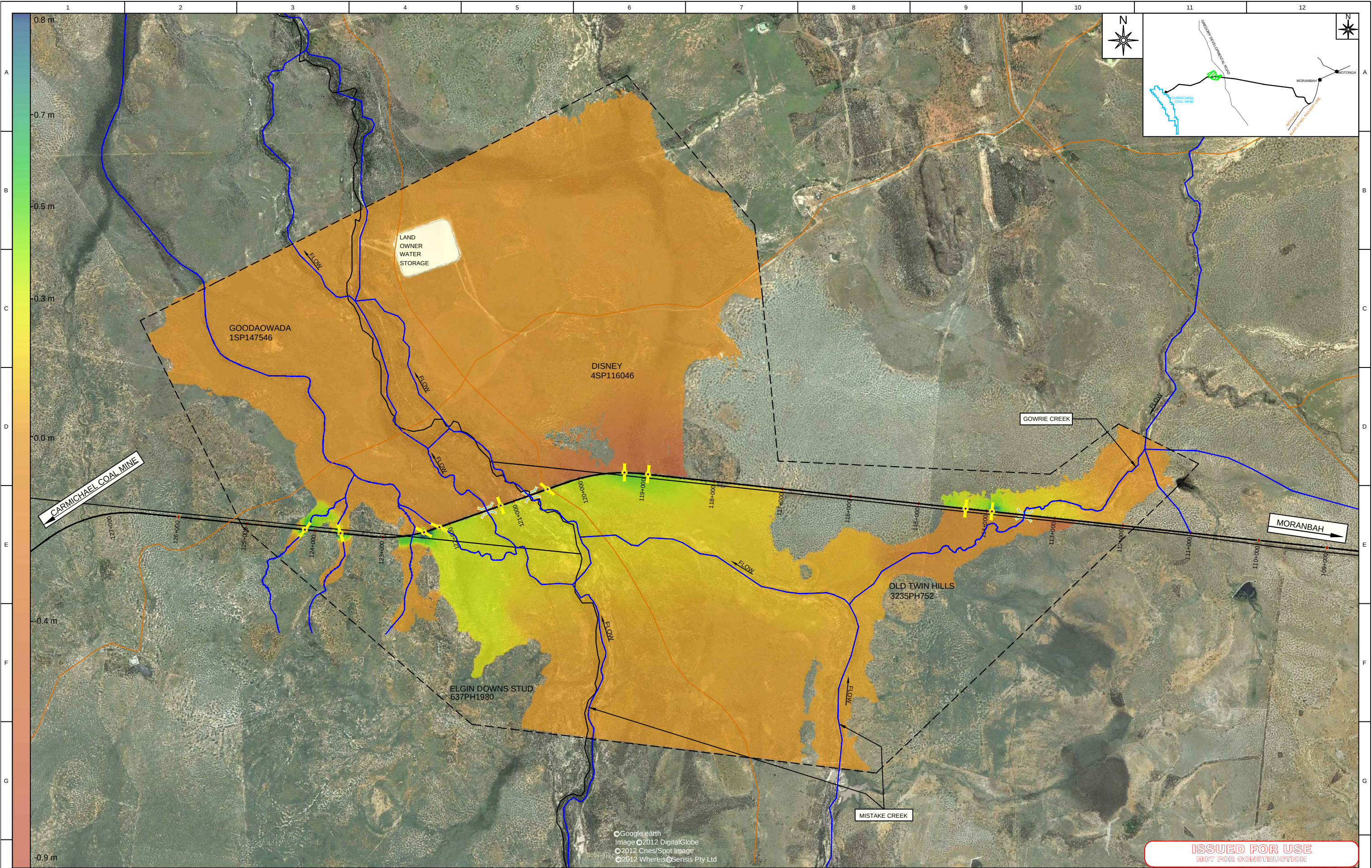
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
MISTAKE CREEK - FLOOD INUNDATION (Q20)

PROJECT No. **CARP12033**
DRG No. **CARP12033-1000-DWG-C-340**
REV **0**

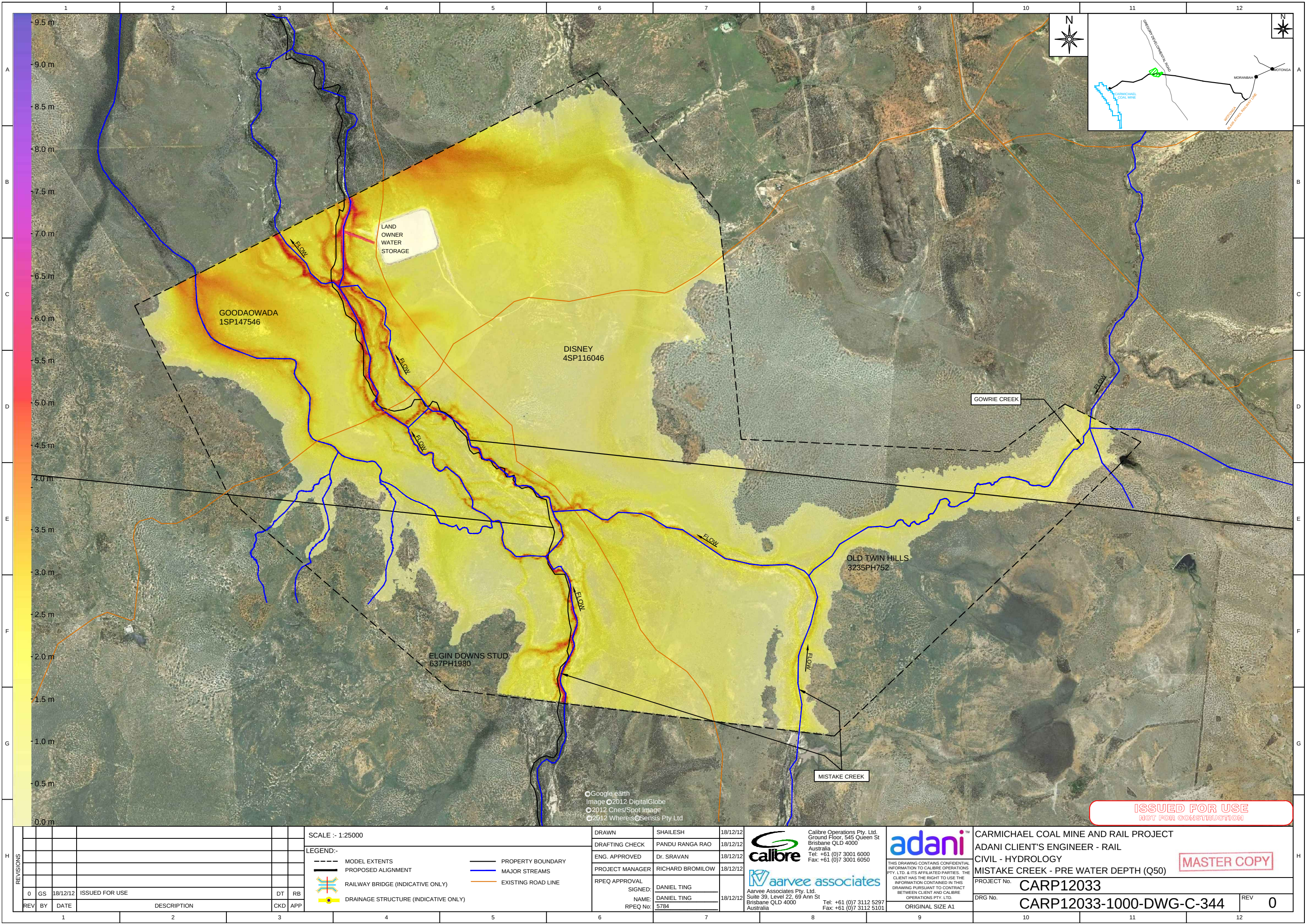
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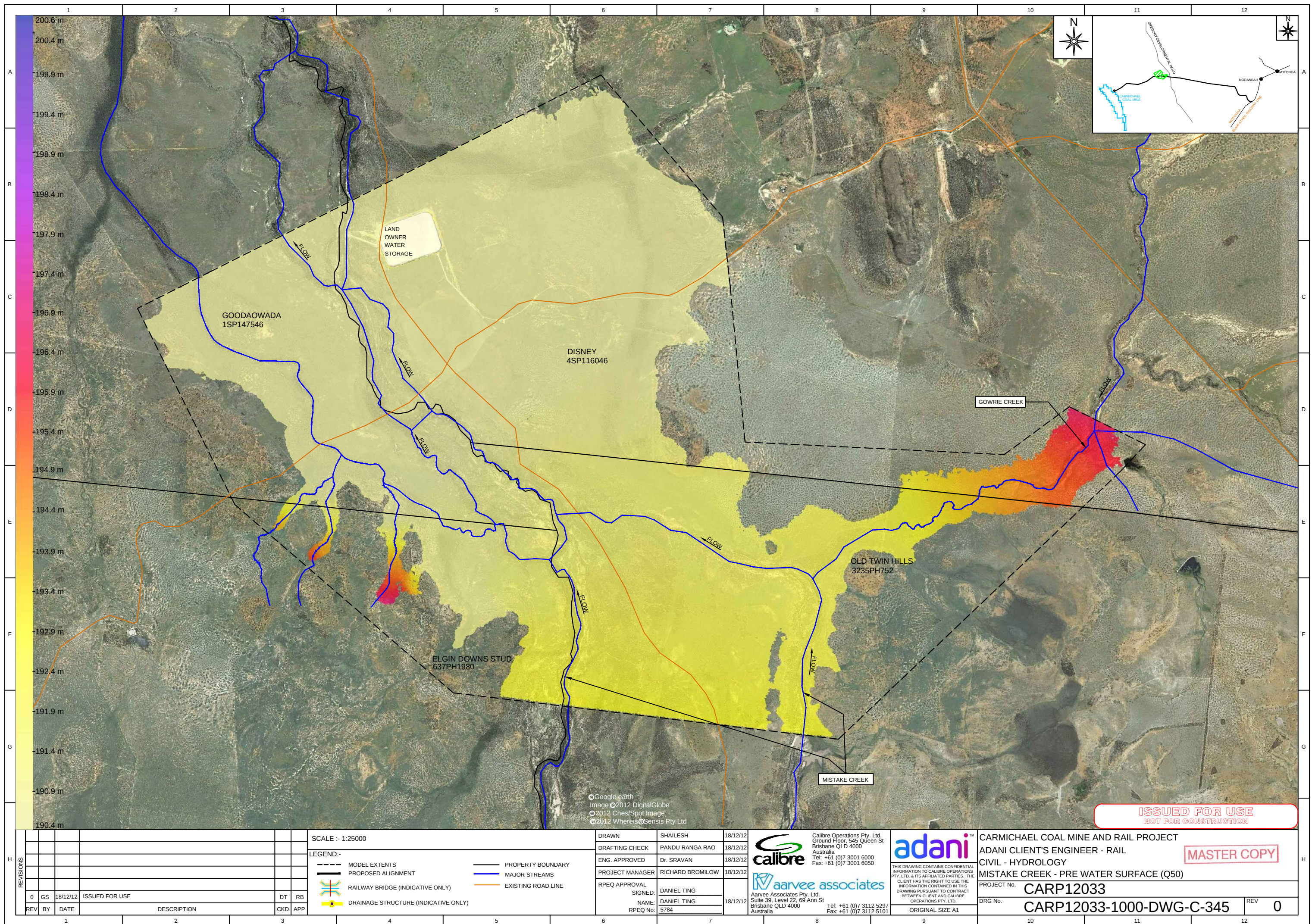


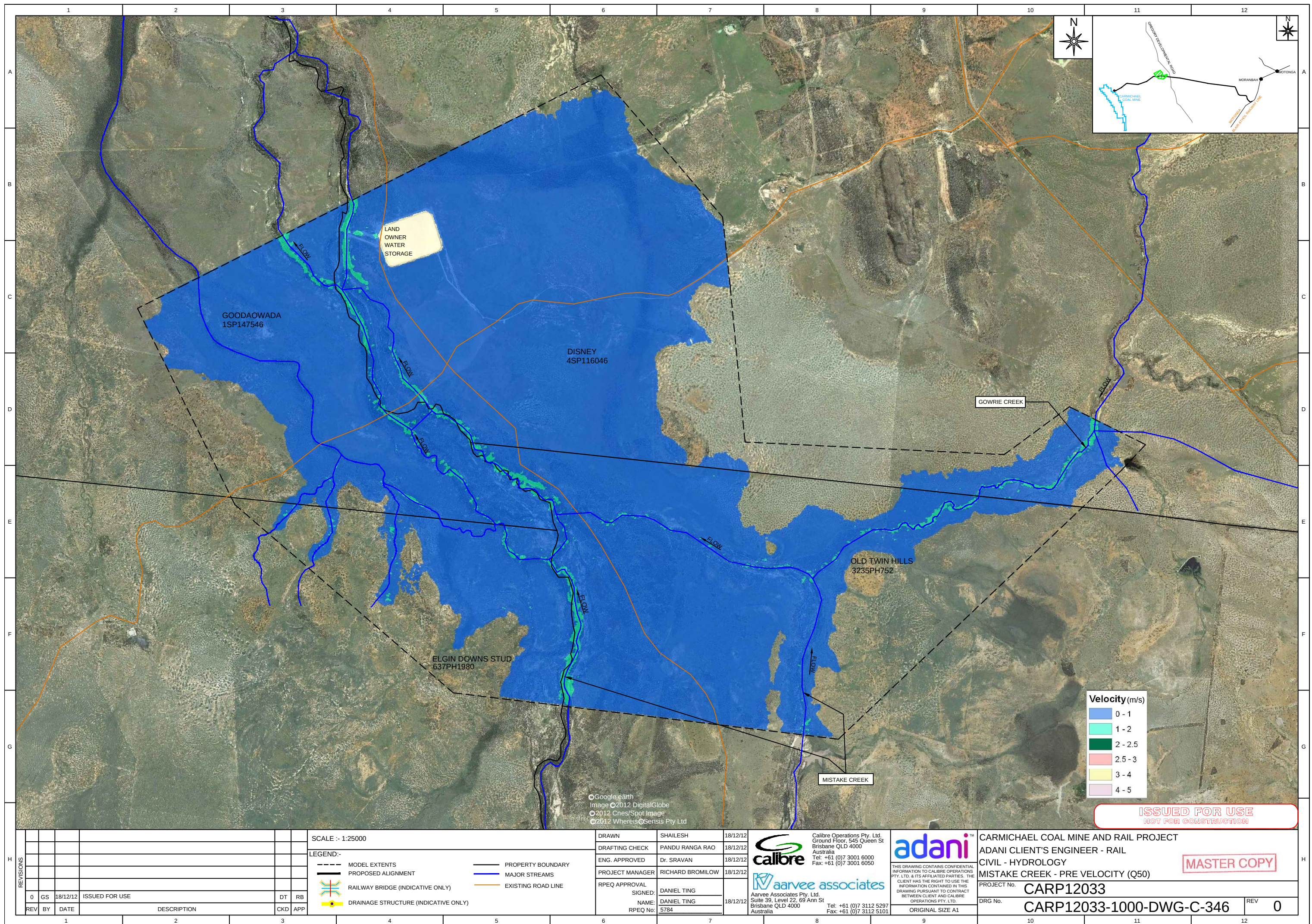
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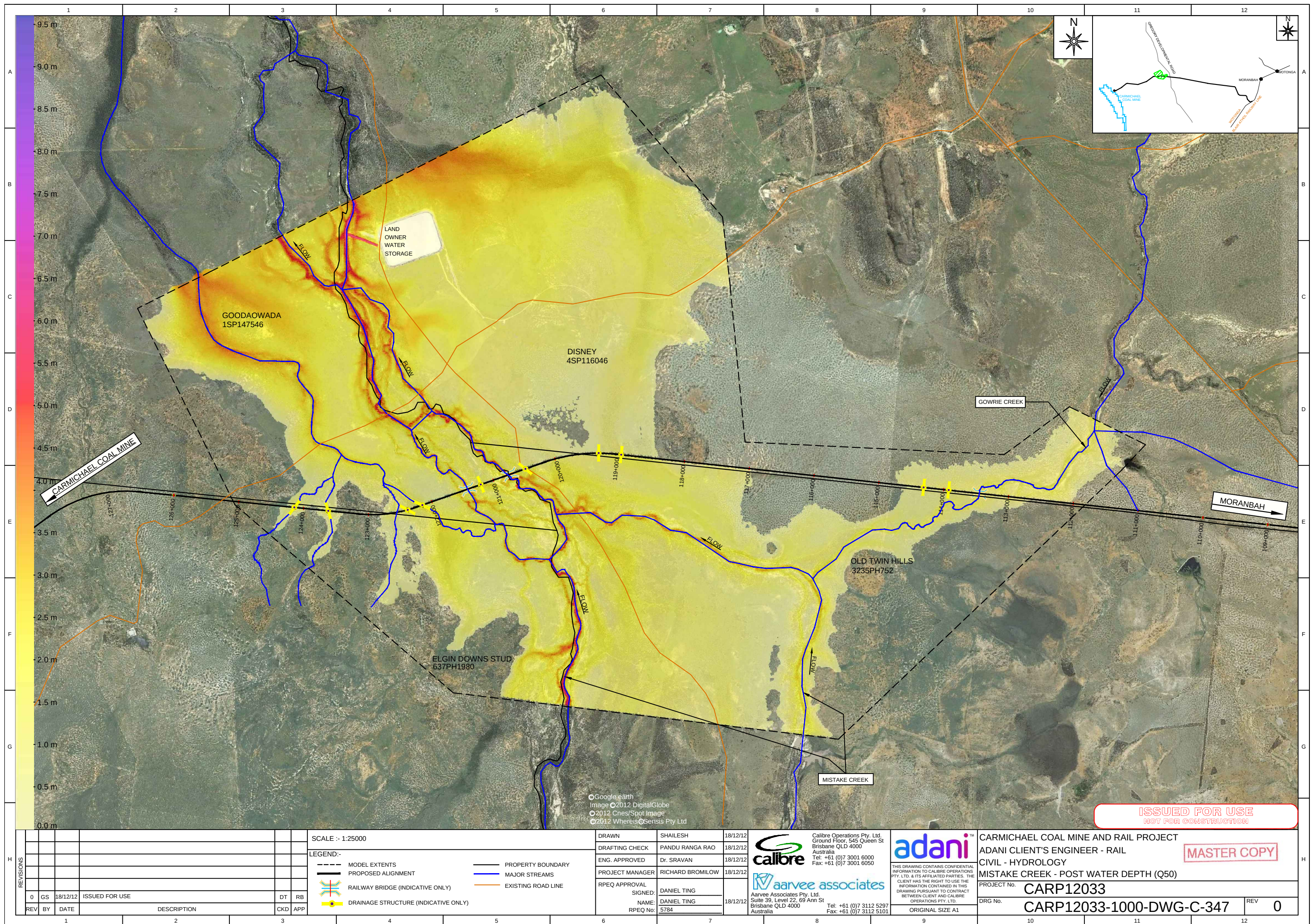


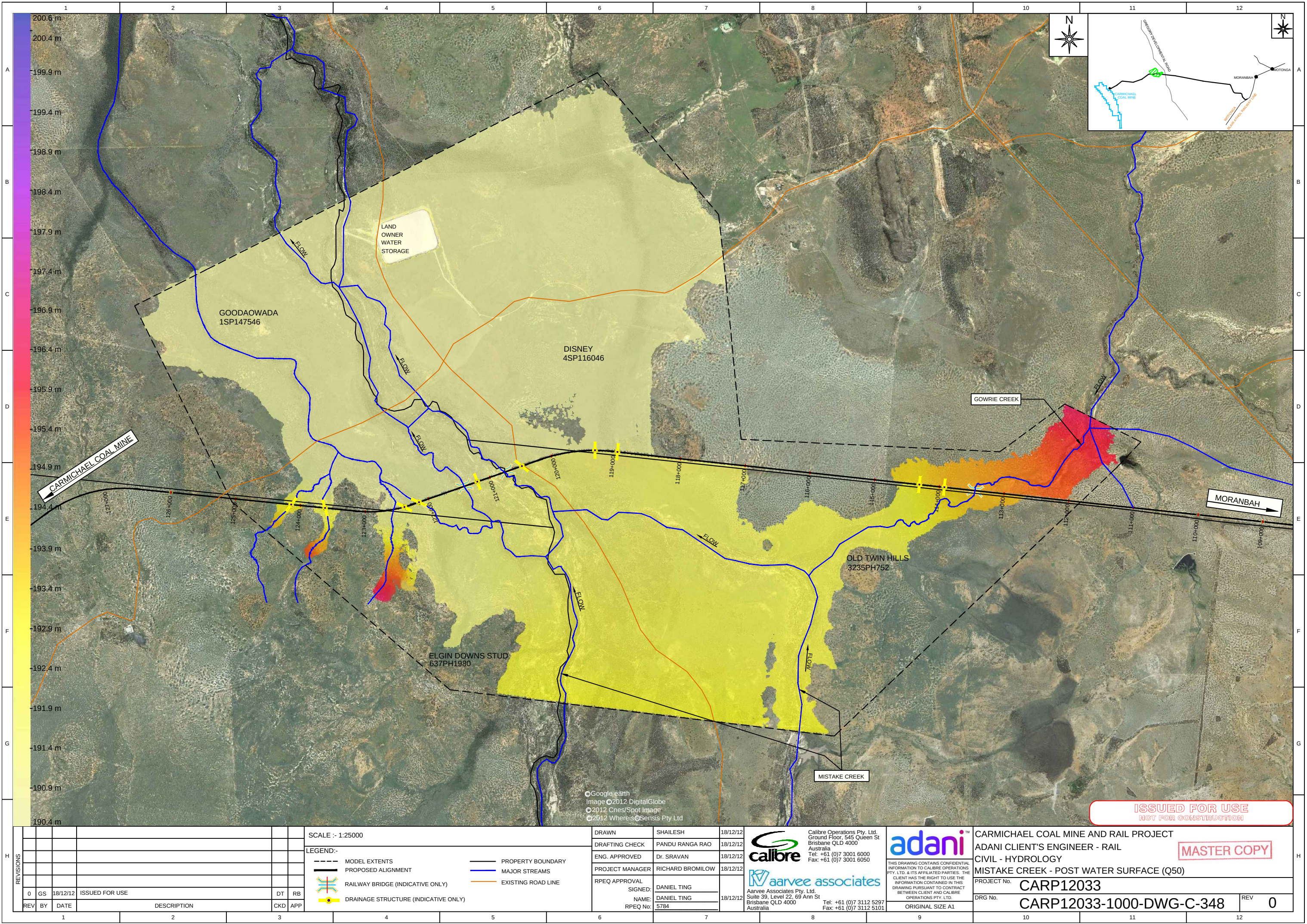
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ISSUED FOR USE
NOT FOR CONSTRUCTION

SCALE :- 1:25000			
LEGEND:-			
	MODEL EXTENTS		PROPERTY BOUNDARY
	PROPOSED ALIGNMENT		MAJOR STREAMS
	RAILWAY BRIDGE (INDICATIVE ONLY)		EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)		

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. BRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	
NAME:	DANIEL TING	18/12/12
RPEQ No:	5784	

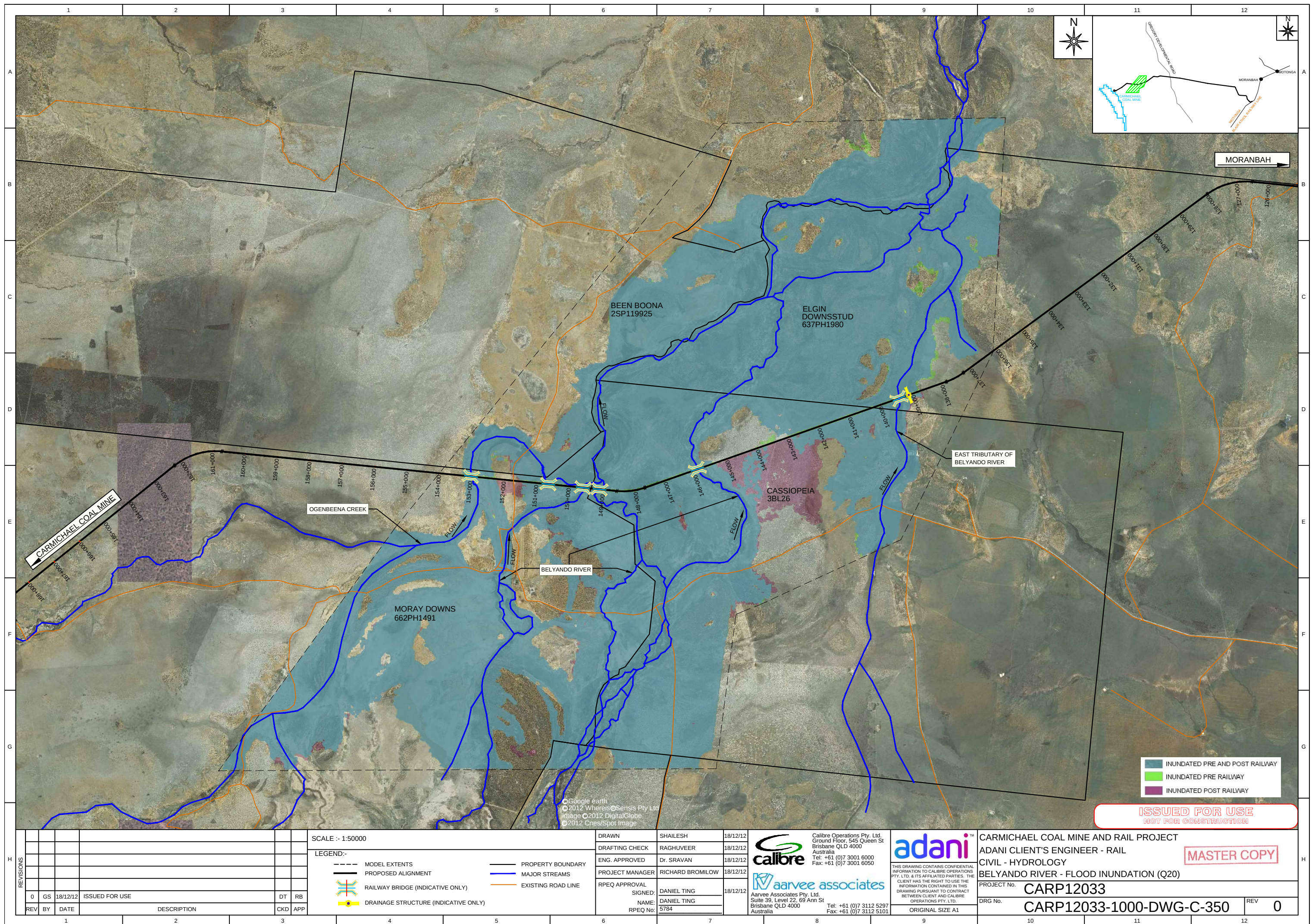
Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3001 6000
Fax: +61 (0)7 3001 6050

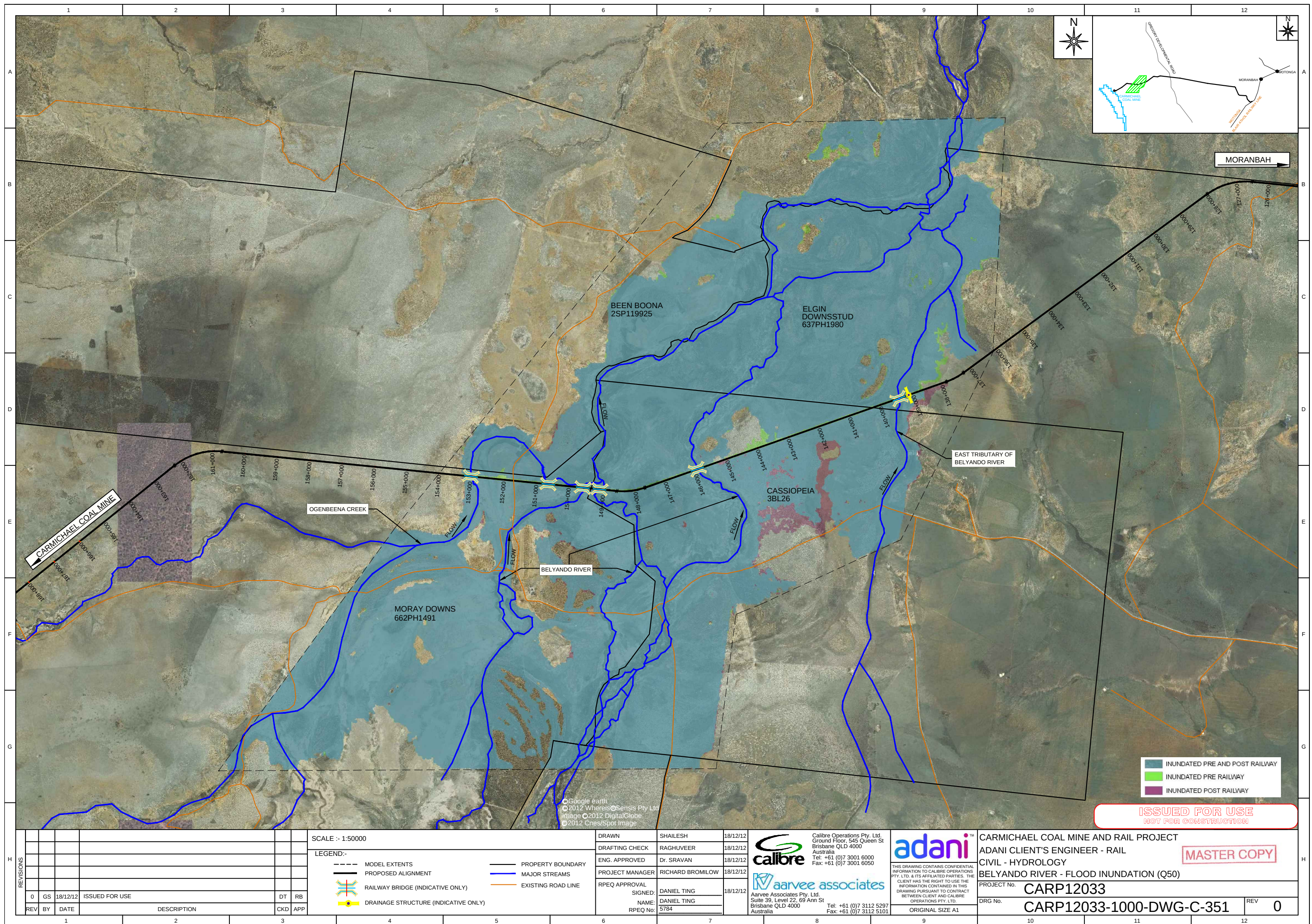
Aarvee Associates Pty. Ltd.
Suite 39, Level 22, 69 Ann St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3112 5297
Fax: +61 (0)7 3112 5101

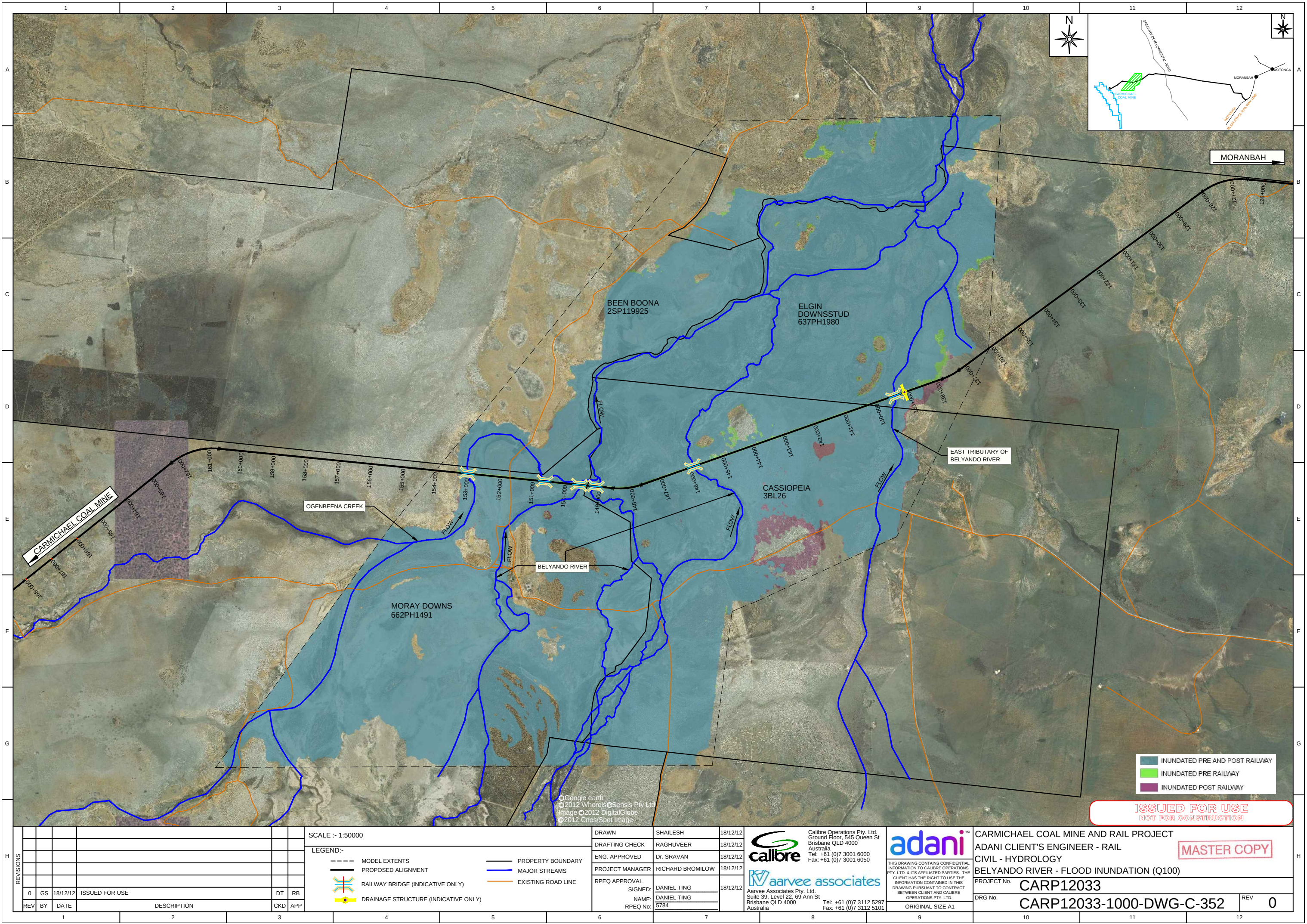
THIS DRAWING CONTAINS CONFIDENTIAL
INFORMATION TO CALIBRE OPERATIONS
PTY. LTD. & ITS AFFILIATED PARTIES. THE
CLIENT HAS THE RIGHT TO USE THE
INFORMATION CONTAINED IN THIS
DRAWING PURSUANT TO CONTRACT
BETWEEN CLIENT AND CALIBRE
OPERATIONS PTY. LTD.

ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT			
ADANI CLIENT'S ENGINEER - RAIL			
CIVIL - HYDROLOGY			
MISTAKE CREEK - POST WATER SURFACE (Q50)			
PROJECT No.	CARP12033		
DRG No.	CARP12033-1000-DWG-C-348		
REV	0		







REVISIONS							
REV	BY	DATE	DESCRIPTION	CKD	APP		
0	GS	18/12/12	ISSUED FOR USE	DT	RB		

SCALE :- 1:50000	
LEGEND:-	
	MODEL EXTENTS
	PROPOSED ALIGNMENT
	PROPERTY BOUNDARY
	MAJOR STREAMS
	EXISTING ROAD LINE
	RAILWAY BRIDGE (INDICATIVE ONLY)
	DRAINAGE STRUCTURE (INDICATIVE ONLY)

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	DR. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

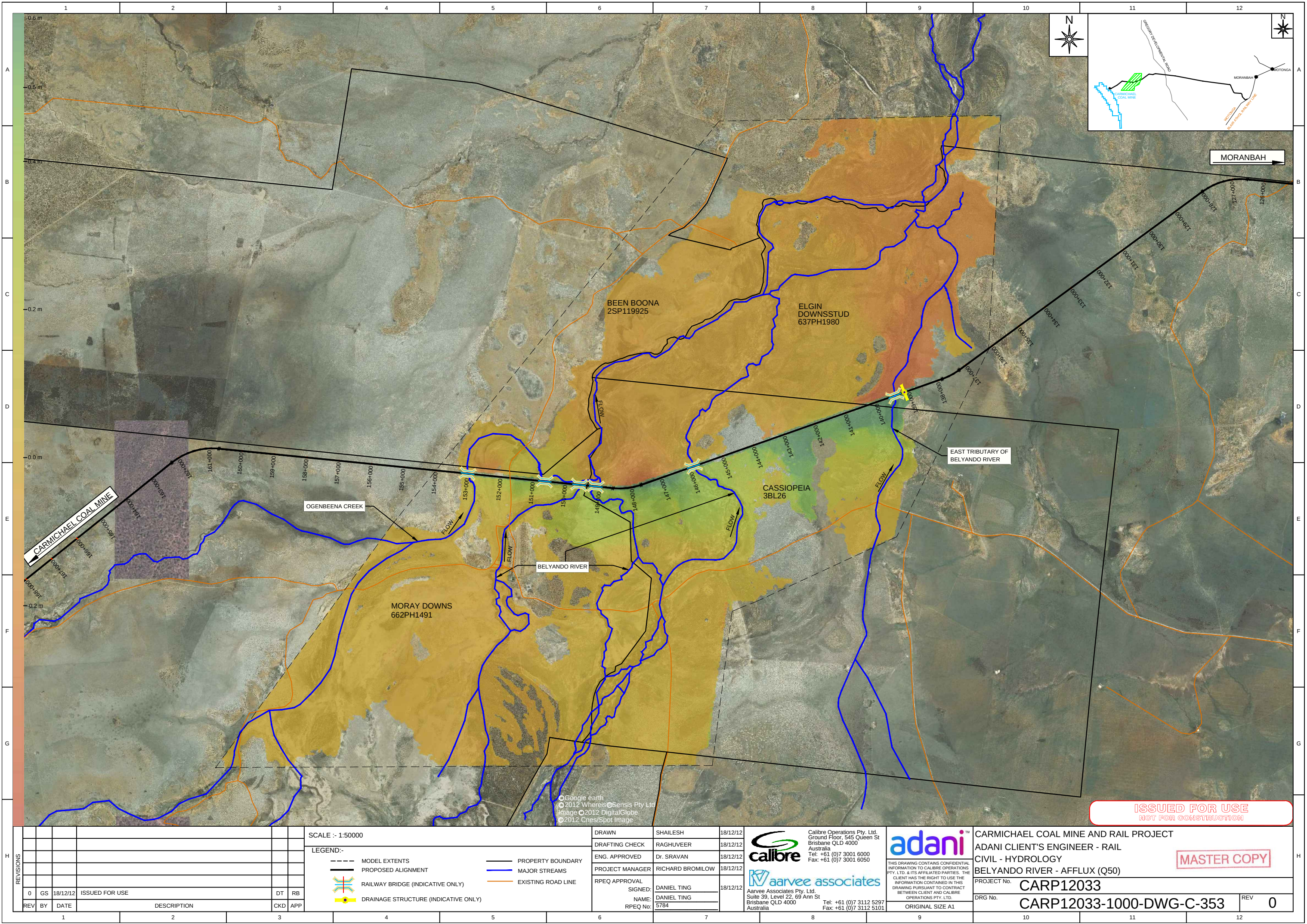
Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3001 6000
Fax: +61 (0)7 3001 6050

Aarvee Associates Pty. Ltd.
Suite 39, Level 22, 69 Ann St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3112 5297
Fax: +61 (0)7 3112 5101

THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION TO CALIBRE OPERATIONS PTY. LTD. & ITS AFFILIATED PARTIES. THE CLIENT HAS THE RIGHT TO USE THE INFORMATION CONTAINED IN THIS DRAWING PURSUANT TO CONTRACT BETWEEN CLIENT AND CALIBRE OPERATIONS PTY. LTD.

ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT			
ADANI CLIENT'S ENGINEER - RAIL			
CIVIL - HYDROLOGY			
BELYANDO RIVER - FLOOD INUNDATION (Q100)			
PROJECT No.	CARP12033		
DRG No.	CARP12033-1000-DWG-C-352		
REV	0		



REV	BY	DATE	DESCRIPTION	CKD	APP
0	GS	18/12/12	ISSUED FOR USE	DT	RB

SCALE :- 1:50000	
LEGEND:-	
	MODEL EXTENTS
	PROPOSED ALIGNMENT
	MAJOR STREAMS
	PROPERTY BOUNDARY
	EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	DR. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

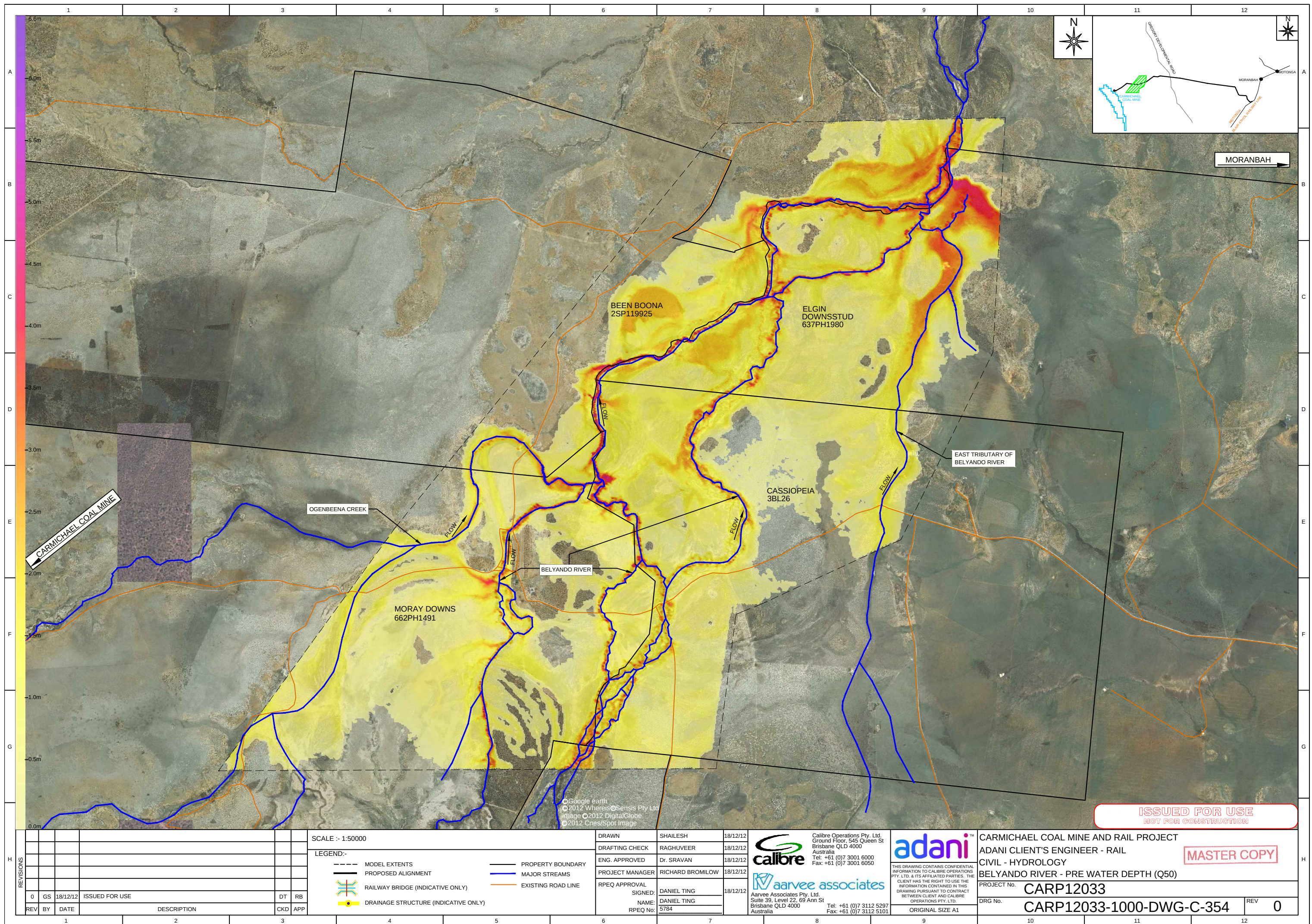
Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
Brisbane QLD 4000
Australia
Tel: +61 (0)7 3001 6000
Fax: +61 (0)7 3001 6050

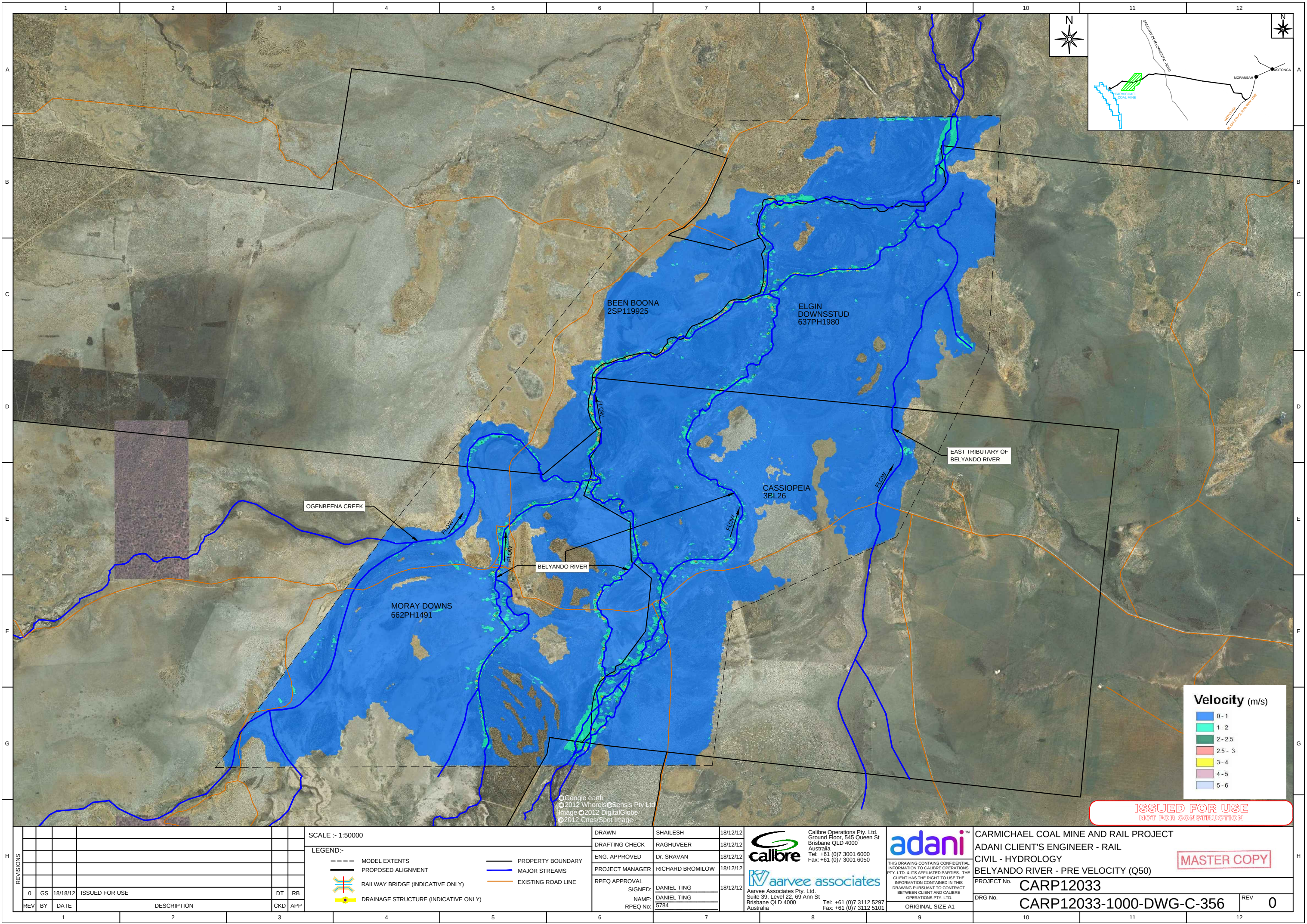
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Tel: +61 (0)7 3112 5297
Fax: +61 (0)7 3112 5101

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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT	
ADANI CLIENT'S ENGINEER - RAIL	
CIVIL - HYDROLOGY	
BELYANDO RIVER - AFFLUX (Q50)	
PROJECT No.	CARP12033
DRG No.	CARP12033-1000-DWG-C-353
REV	0





REVISIONS												
	0	GS	18/18/12	ISSUED FOR USE						DT	RB	
REV	BY	DATE	DESCRIPTION						CKD	APP		
			1	2	3	4	5	6	7	8	9	10

SCALE :- 1:50000

LEGEND:-

- MODEL EXTENTS
- PROPOSED ALIGNMENT
- RAILWAY BRIDGE (INDICATIVE ONLY)
- DRAINAGE STRUCTURE (INDICATIVE ONLY)
- PROPERTY BOUNDARY
- MAJOR STREAMS
- EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	Dr. SRAMAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

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ORIGINAL SIZE A1

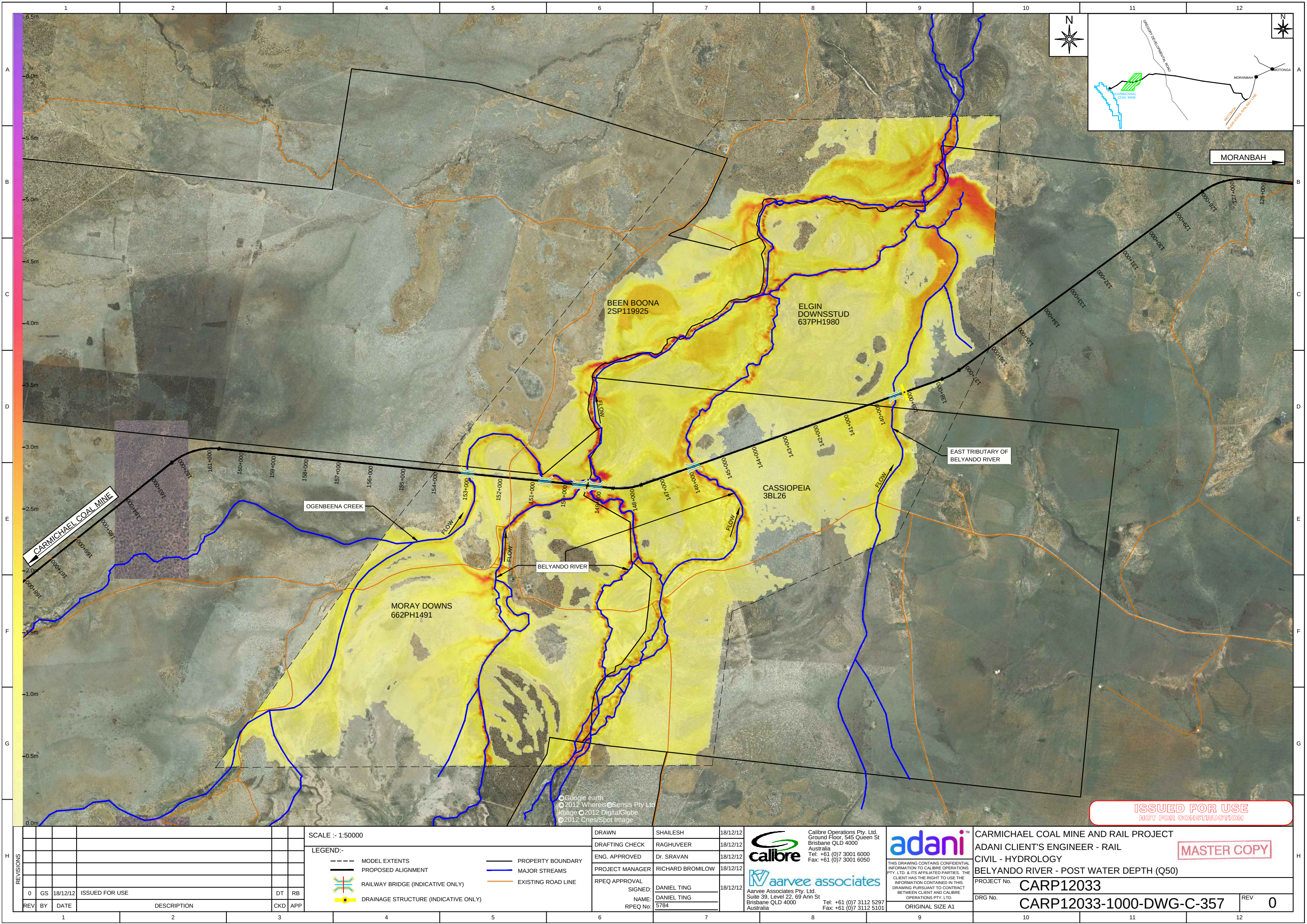
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
BELYANDO RIVER - PRE VELOCITY (Q50)

PROJECT No. **CARP12033**

DRG No. **CARP12033-1000-DWG-C-356**

REV **0**

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REVISIONS							
REV	BY	DATE	DESCRIPTION	CKD	APP		
0	GS	18/12/12	ISSUED FOR USE	DT	RB		

SCALE :- 1:50000

LEGEND:-

- MODEL EXTENTS
- PROPOSED ALIGNMENT
- RAILWAY BRIDGE (INDICATIVE ONLY)
- DRAINAGE STRUCTURE (INDICATIVE ONLY)
- PROPERTY BOUNDARY
- MAJOR STREAMS
- EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	DR. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
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RPEQ No:	5784	

calibre

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ORIGINAL SIZE A1

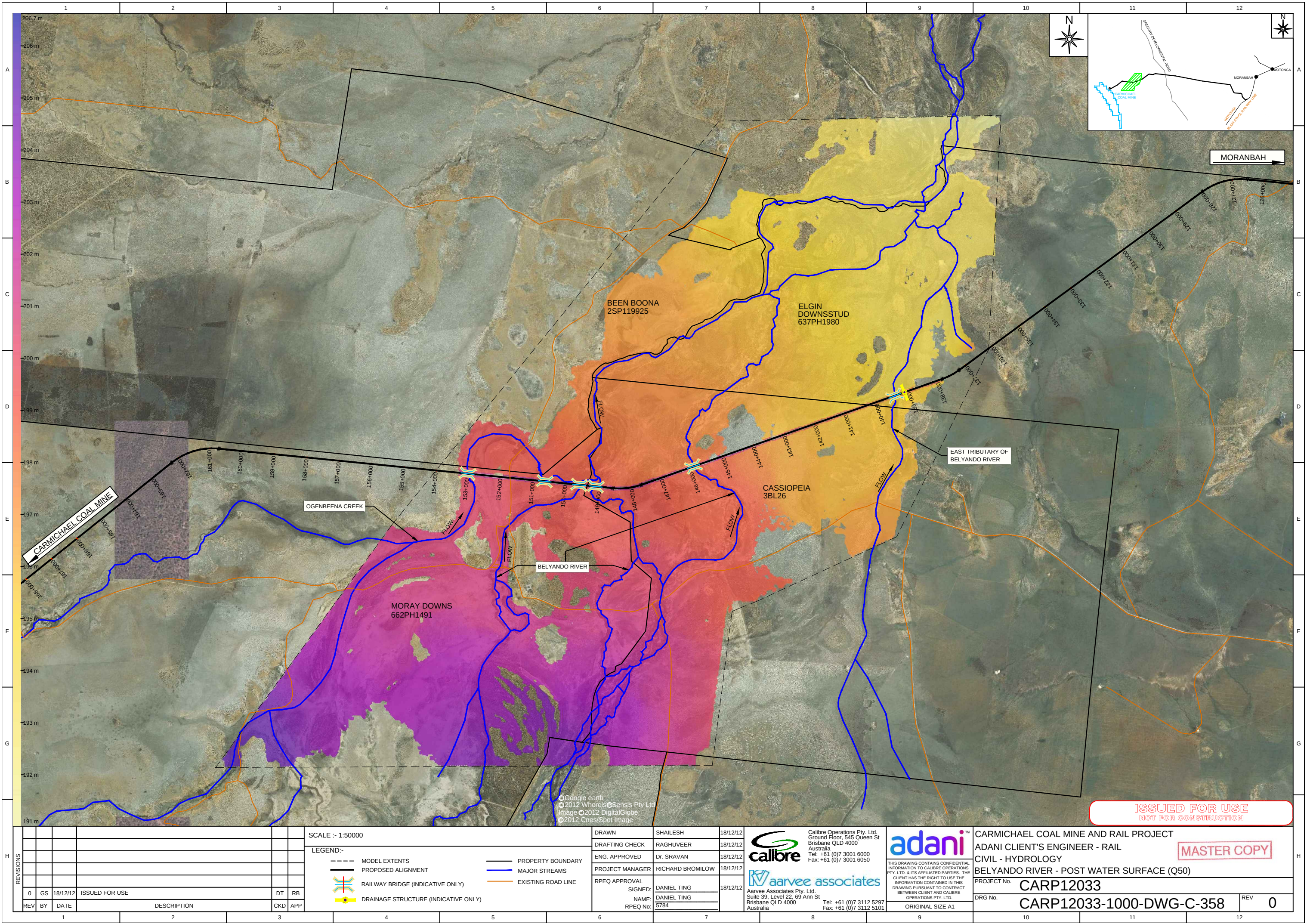
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
BELYANDO RIVER - POST WATER DEPTH (Q50)

PROJECT No. **CARP12033**

DRG No. **CARP12033-1000-DWG-C-357**

REV **0**

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SCALE :- 1:50000	
LEGEND:-	
	MODEL EXTENTS
	PROPOSED ALIGNMENT
	MAJOR STREAMS
	EXISTING ROAD LINE
	RAILWAY BRIDGE (INDICATIVE ONLY)
	DRAINAGE STRUCTURE (INDICATIVE ONLY)
	PROPERTY BOUNDARY

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	DR. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

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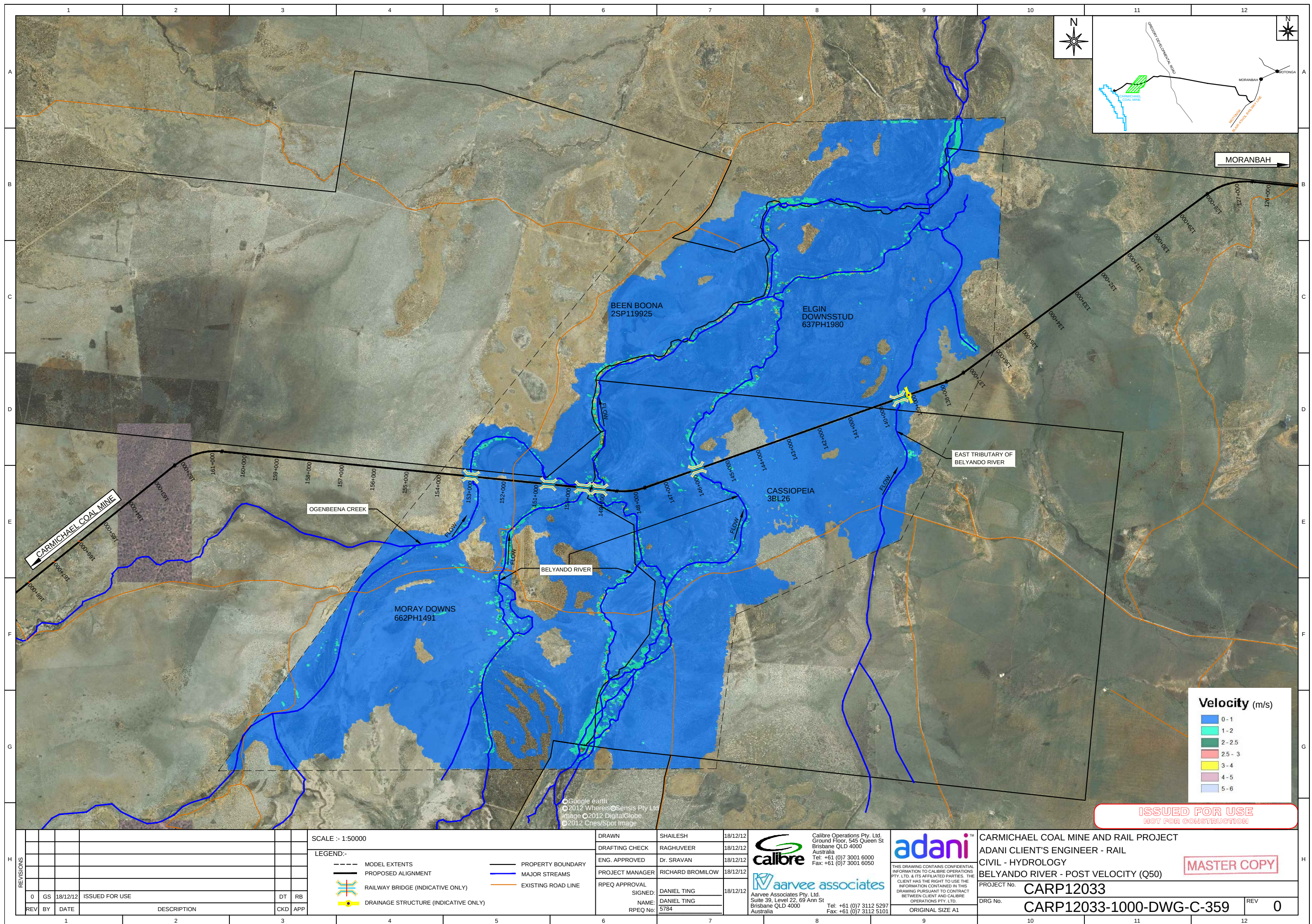
Aarvee Associates Pty. Ltd.
Suite 39, Level 22, 69 Ann St
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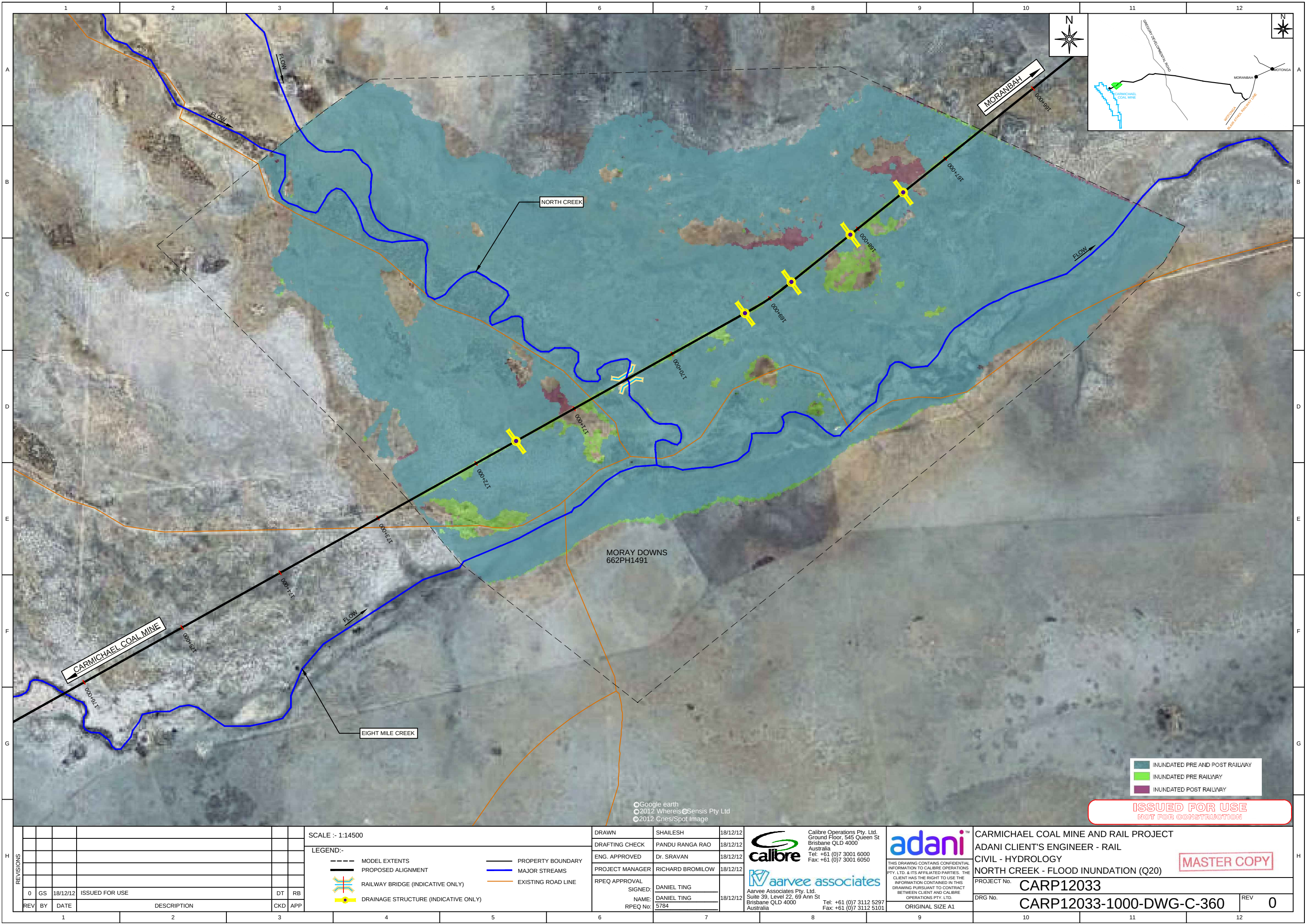
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT	
ADANI CLIENT'S ENGINEER - RAIL	
CIVIL - HYDROLOGY	
BELYANDO RIVER - POST WATER SURFACE (Q50)	
PROJECT No.	CARP12033
DRG No.	CARP12033-1000-DWG-C-358
REV	0

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SCALE :- 1:14500	
LEGEND:-	
	MODEL EXTENTS
	PROPOSED ALIGNMENT
	MAJOR STREAMS
	EXISTING ROAD LINE
	RAILWAY BRIDGE (INDICATIVE ONLY)
	DRAINAGE STRUCTURE (INDICATIVE ONLY)
	PROPERTY BOUNDARY

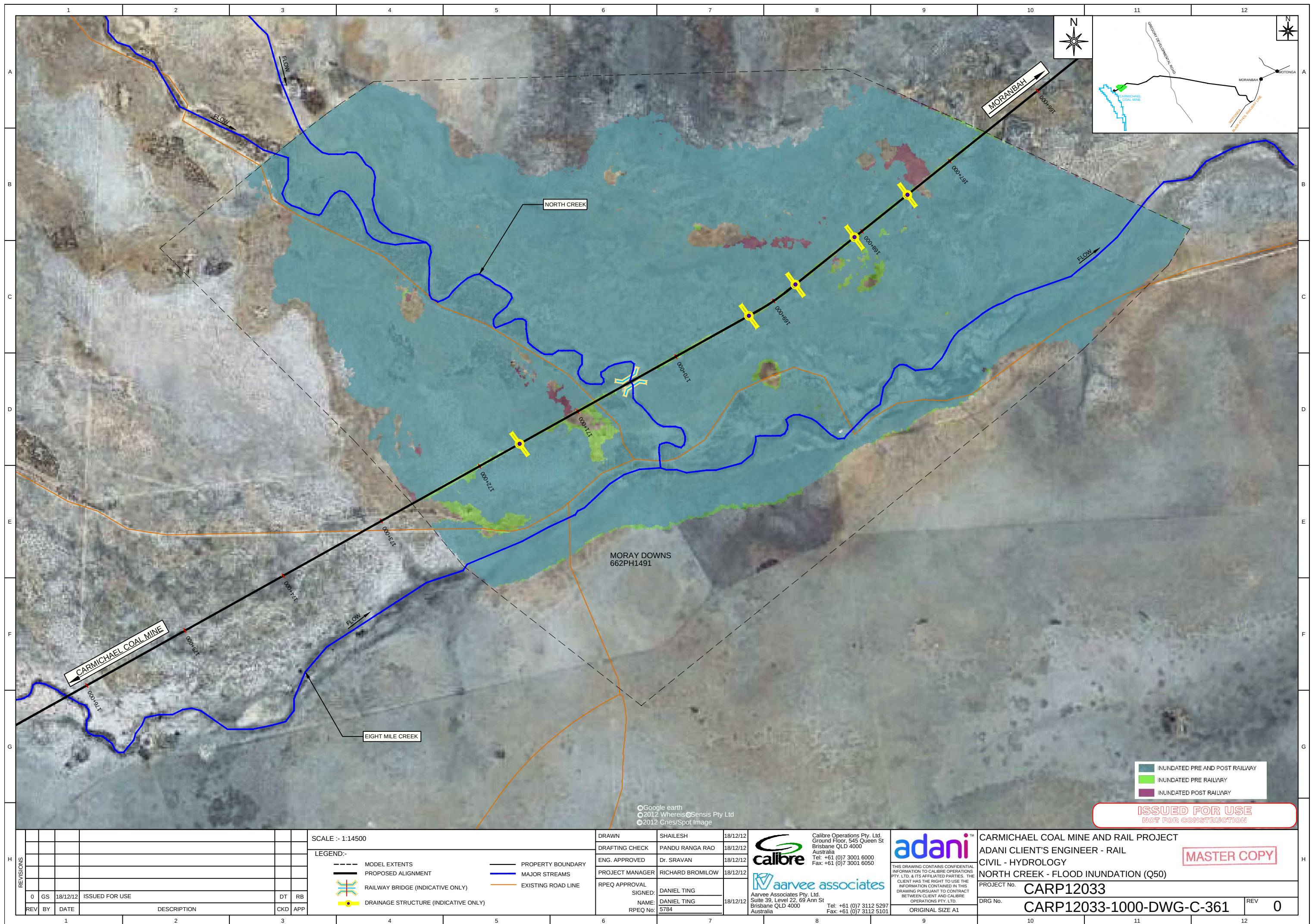
DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

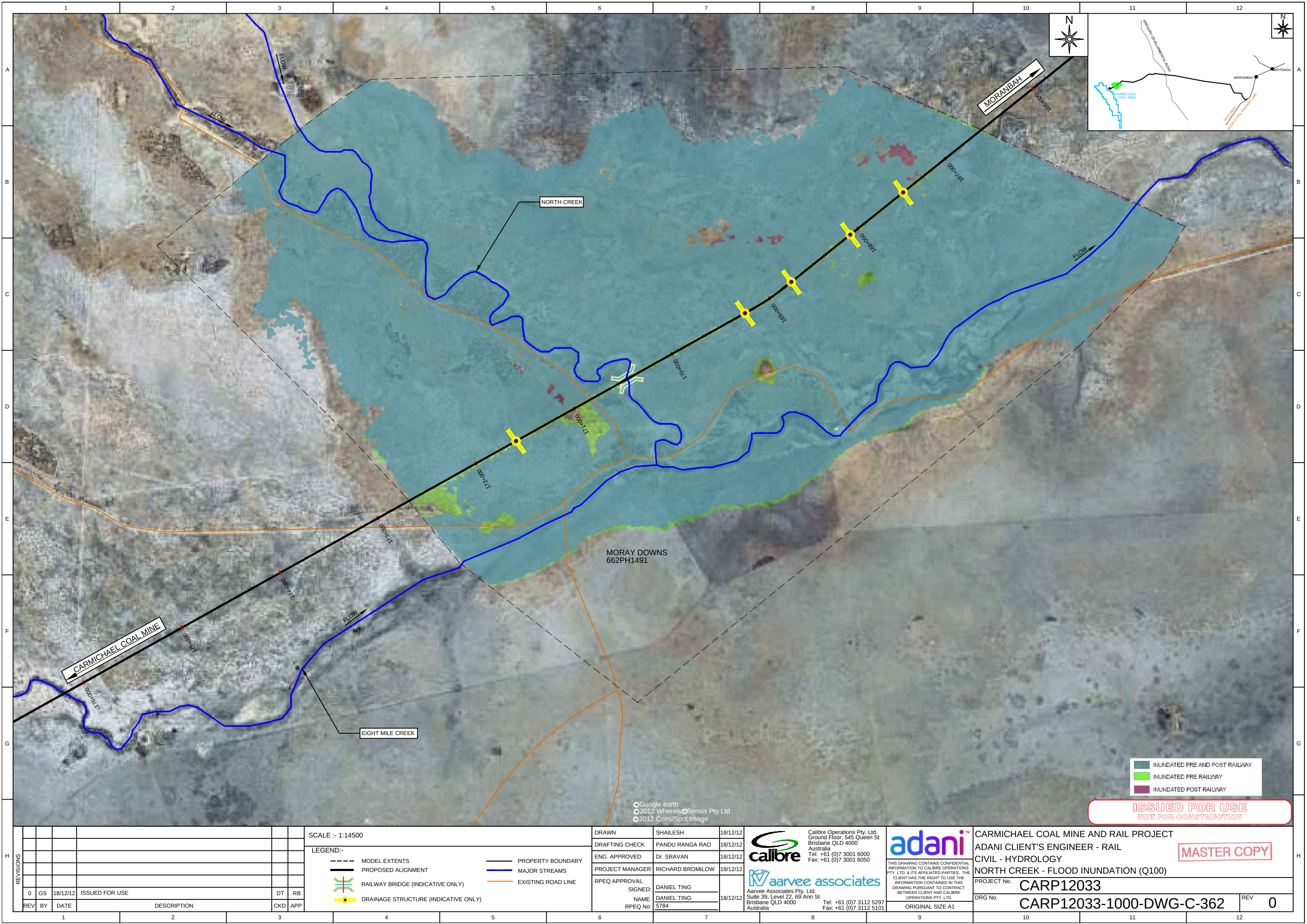
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CARMICHAEL COAL MINE AND RAIL PROJECT		
ADANI CLIENT'S ENGINEER - RAIL		
CIVIL - HYDROLOGY		
NORTH CREEK - FLOOD INUNDATION (Q20)		
PROJECT No.	CARP12033	
DRG No.	CARP12033-1000-DWG-C-360	REV 0





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REVISIONS						
REV	BY	DATE	DESCRIPTION			CKD APP
0	GS	18/12/12	ISSUED FOR USE			DT RB

SCALE :- 1:14500	
LEGEND:-	
	MODEL EXTENTS
	PROPOSED ALIGNMENT
	MAJOR STREAMS
	EXISTING ROAD LINE
	RAILWAY BRIDGE (INDICATIVE ONLY)
	DRAINAGE STRUCTURE (INDICATIVE ONLY)
	PROPERTY BOUNDARY

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	
NAME:	DANIEL TING	18/12/12
RPEQ No:	5784	

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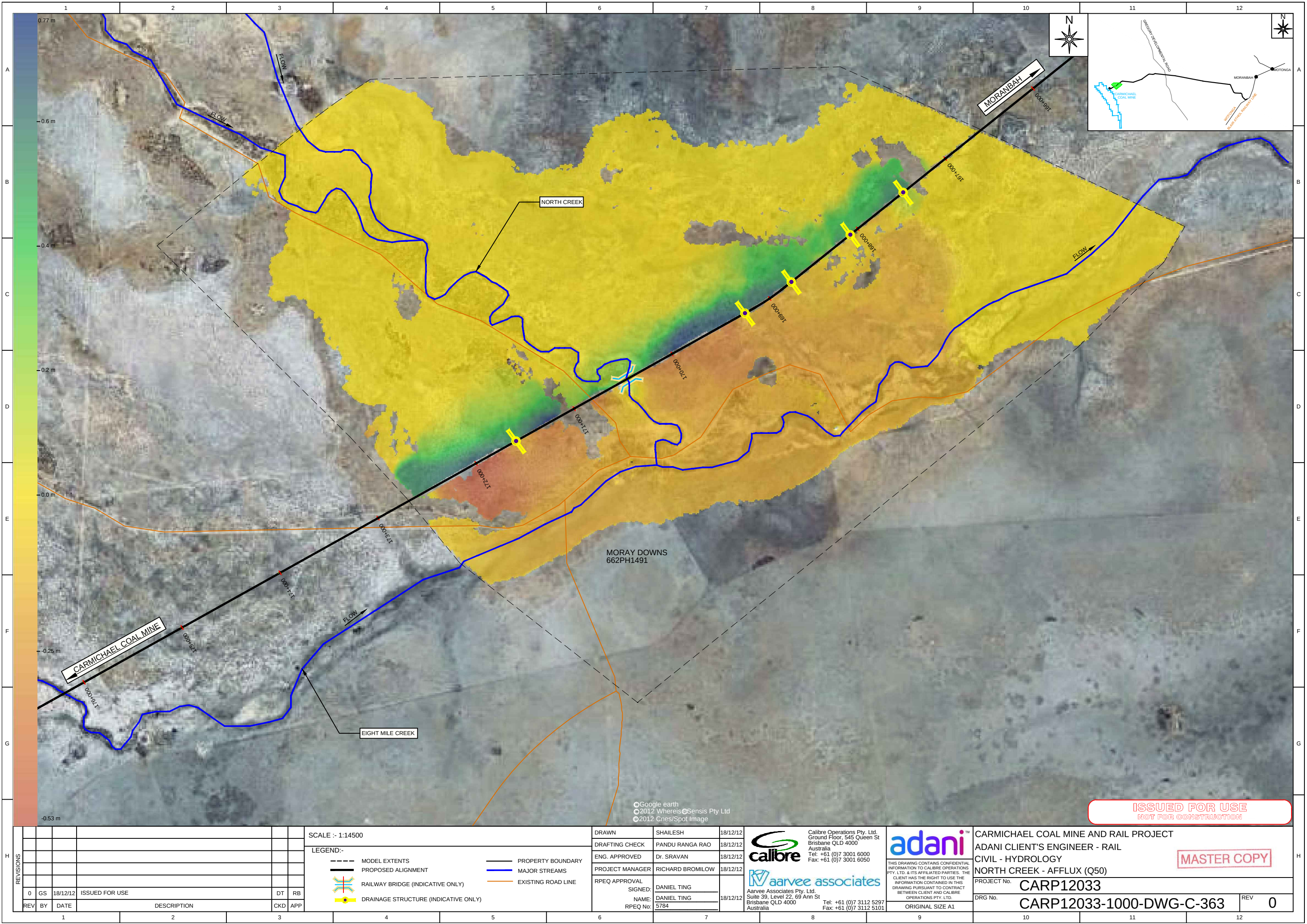
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT	
ADANI CLIENT'S ENGINEER - RAIL	
CIVIL - HYDROLOGY	
NORTH CREEK - FLOOD INUNDATION (Q100)	
PROJECT No.	CARP12033
DRG No.	CARP12033-1000-DWG-C-362
REV	0

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REV	BY	DATE	DESCRIPTION	CKD	APP		
0	GS	18/12/12	ISSUED FOR USE	DT	RB		

SCALE :- 1:14500			
LEGEND:-			
	MODEL EXTENTS		PROPERTY BOUNDARY
	PROPOSED ALIGNMENT		MAJOR STREAMS
	RAILWAY BRIDGE (INDICATIVE ONLY)		EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)		

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

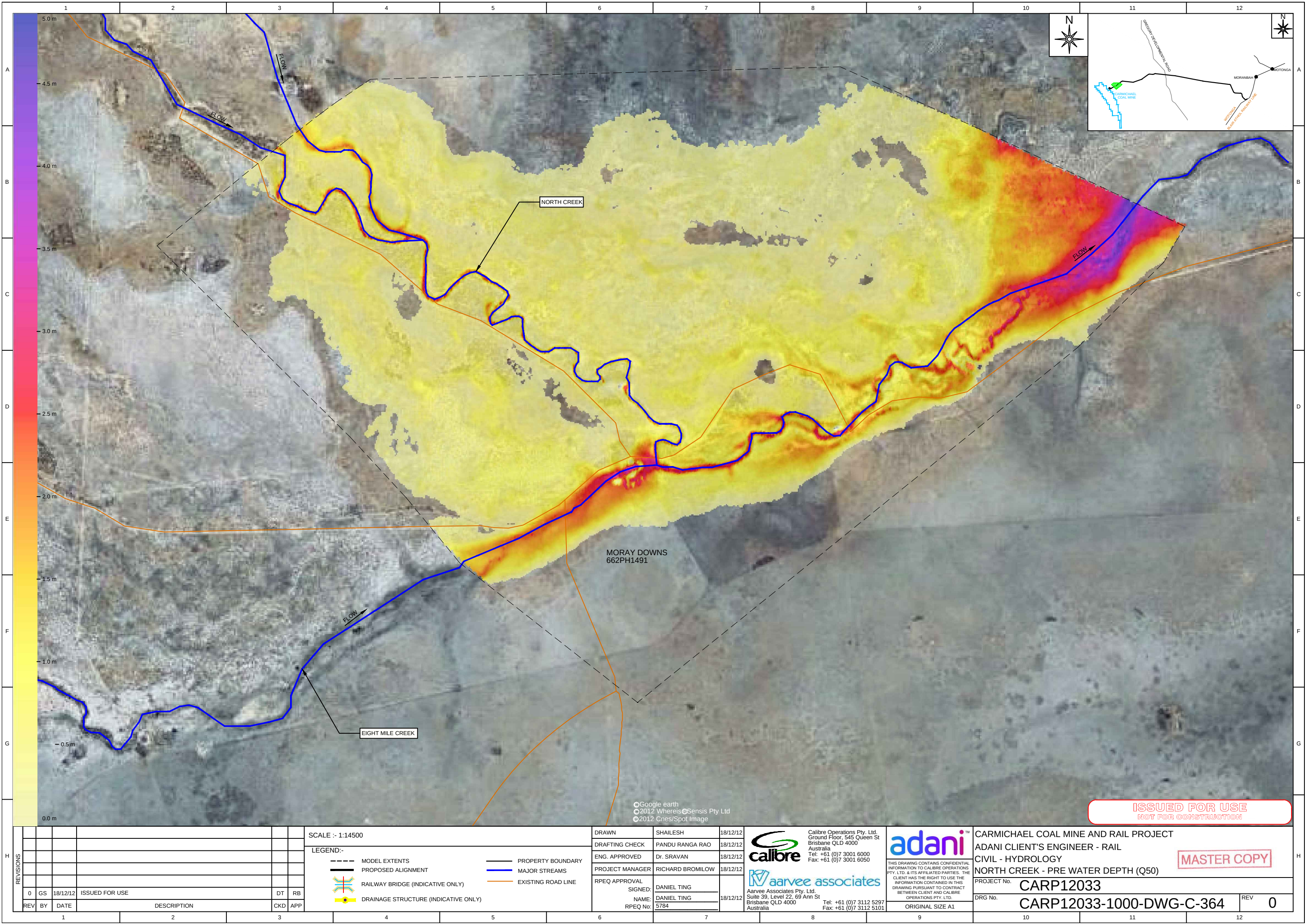
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT			
ADANI CLIENT'S ENGINEER - RAIL			
CIVIL - HYDROLOGY			
NORTH CREEK - AFFLUX (Q50)			
PROJECT No.	CARP12033		
DRG No.	CARP12033-1000-DWG-C-363		
REV	0		



REVISIONS						
	0	GS	18/12/12	ISSUED FOR USE		DT RB
REV	BY	DATE	DESCRIPTION		CKD	APP
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SCALE :- 1:14500

LEGEND:-

- MODEL EXTENTS
- PROPOSED ALIGNMENT
- RAILWAY BRIDGE (INDICATIVE ONLY)
- DRAINAGE STRUCTURE (INDICATIVE ONLY)
- PROPERTY BOUNDARY
- MAJOR STREAMS
- EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	
NAME:	DANIEL TING	18/12/12
RPEQ No:	5784	

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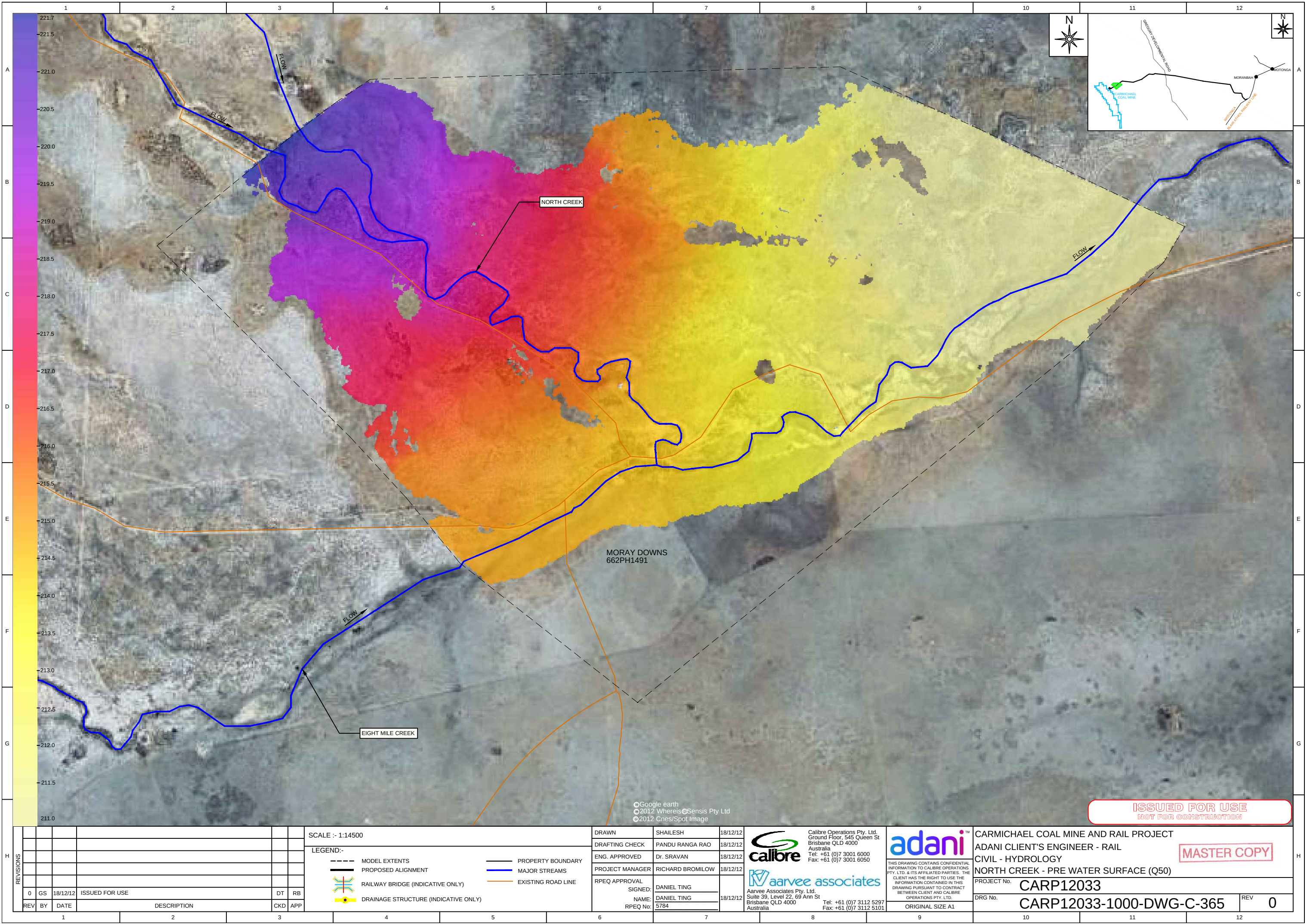
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
NORTH CREEK - PRE WATER DEPTH (Q50)
PROJECT No. **CARP12033**
DRG No. **CARP12033-1000-DWG-C-364** REV **0**

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0	GS	18/12/12	ISSUED FOR USE		DT	RB
REV	BY	DATE	DESCRIPTION		CKD	APP
1			2		3	

SCALE :- 1:14500

LEGEND:-

MODEL EXTENTS

PROPOSED ALIGNMENT

MAJOR STREAMS

EXISTING ROAD LINE

RAILWAY BRIDGE (INDICATIVE ONLY)

DRAINAGE STRUCTURE (INDICATIVE ONLY)

PROPERTY BOUNDARY

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	
NAME:	DANIEL TING	18/12/12
RPEQ No:	5784	

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Ground Floor, 545 Queen St
Brisbane QLD 4000
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Fax: +61 (0)7 3001 6050

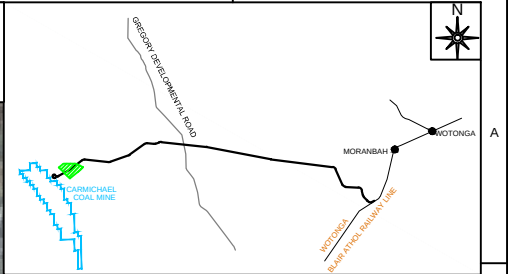
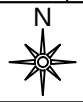
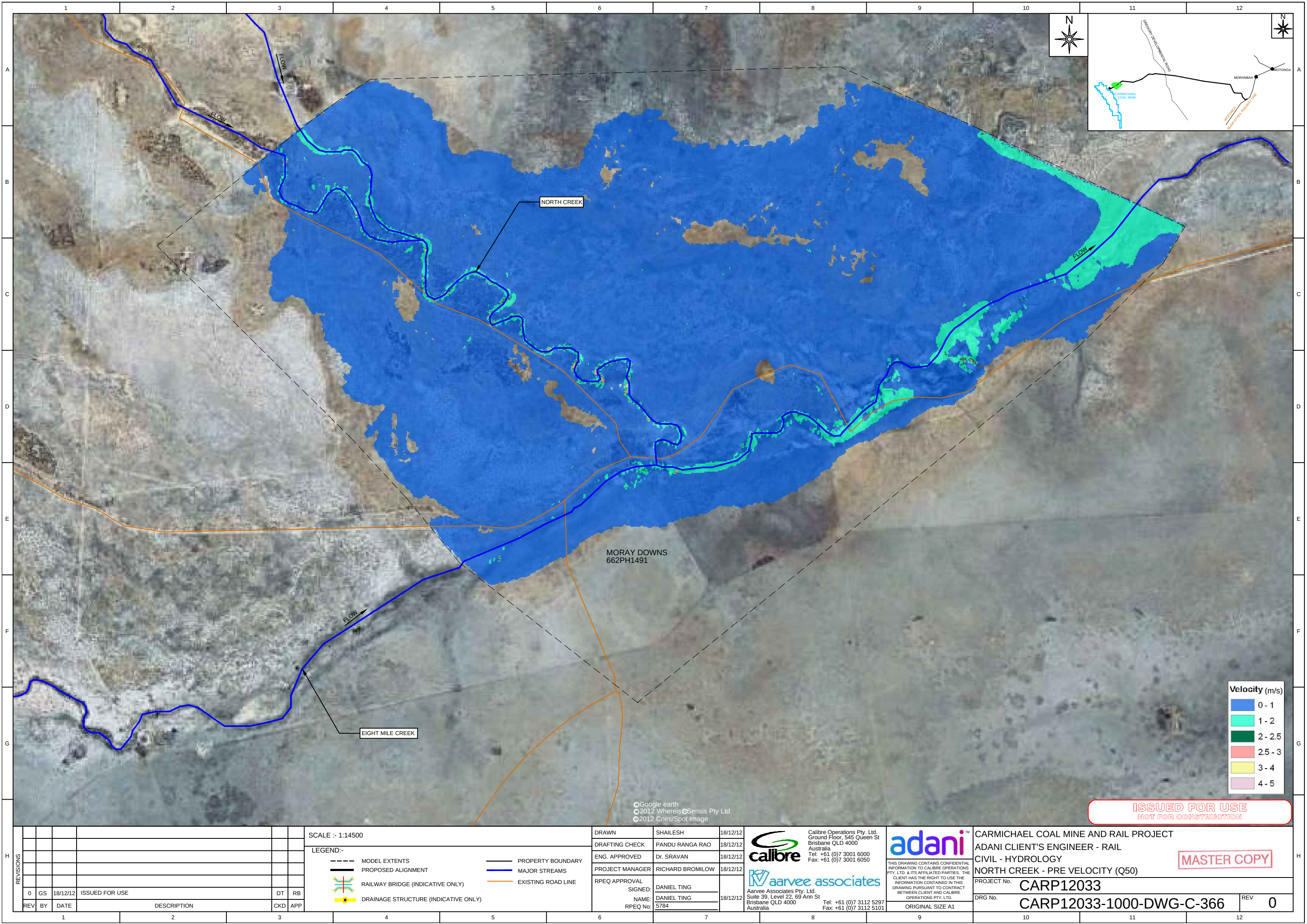
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT			H
ADANI CLIENT'S ENGINEER - RAIL			
CIVIL - HYDROLOGY			
NORTH CREEK - PRE WATER SURFACE (Q50)			
PROJECT No. CARP12033			
DRG No.	CARP12033-1000-DWG-C-365	REV 0	
10	11	12	



Velocity (m/s)	
0 - 1	Blue
1 - 2	Light Green
2 - 2.5	Dark Green
2.5 - 3	Red
3 - 4	Yellow
4 - 5	Purple

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SCALE :- 1:14500

LEGEND:-

- | | |
|--|------------------------|
| --- MODEL EXTENTS | --- PROPERTY BOUNDARY |
| --- PROPOSED ALIGNMENT | --- MAJOR STREAMS |
| --- RAILWAY BRIDGE (INDICATIVE ONLY) | --- EXISTING ROAD LINE |
| --- DRAINAGE STRUCTURE (INDICATIVE ONLY) | |

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	
NAME:	DANIEL TING	18/12/12
RPEQ No:	5784	



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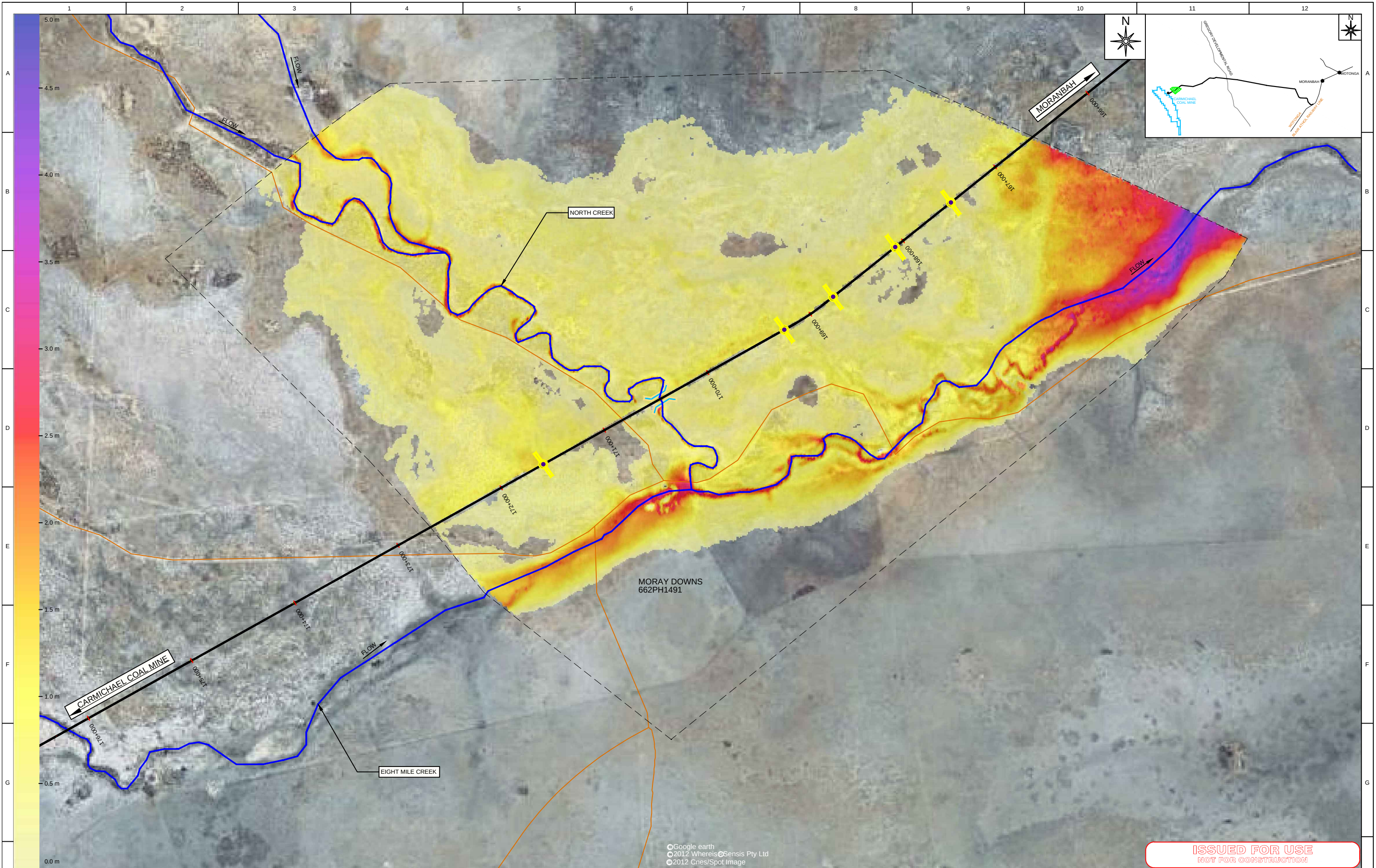


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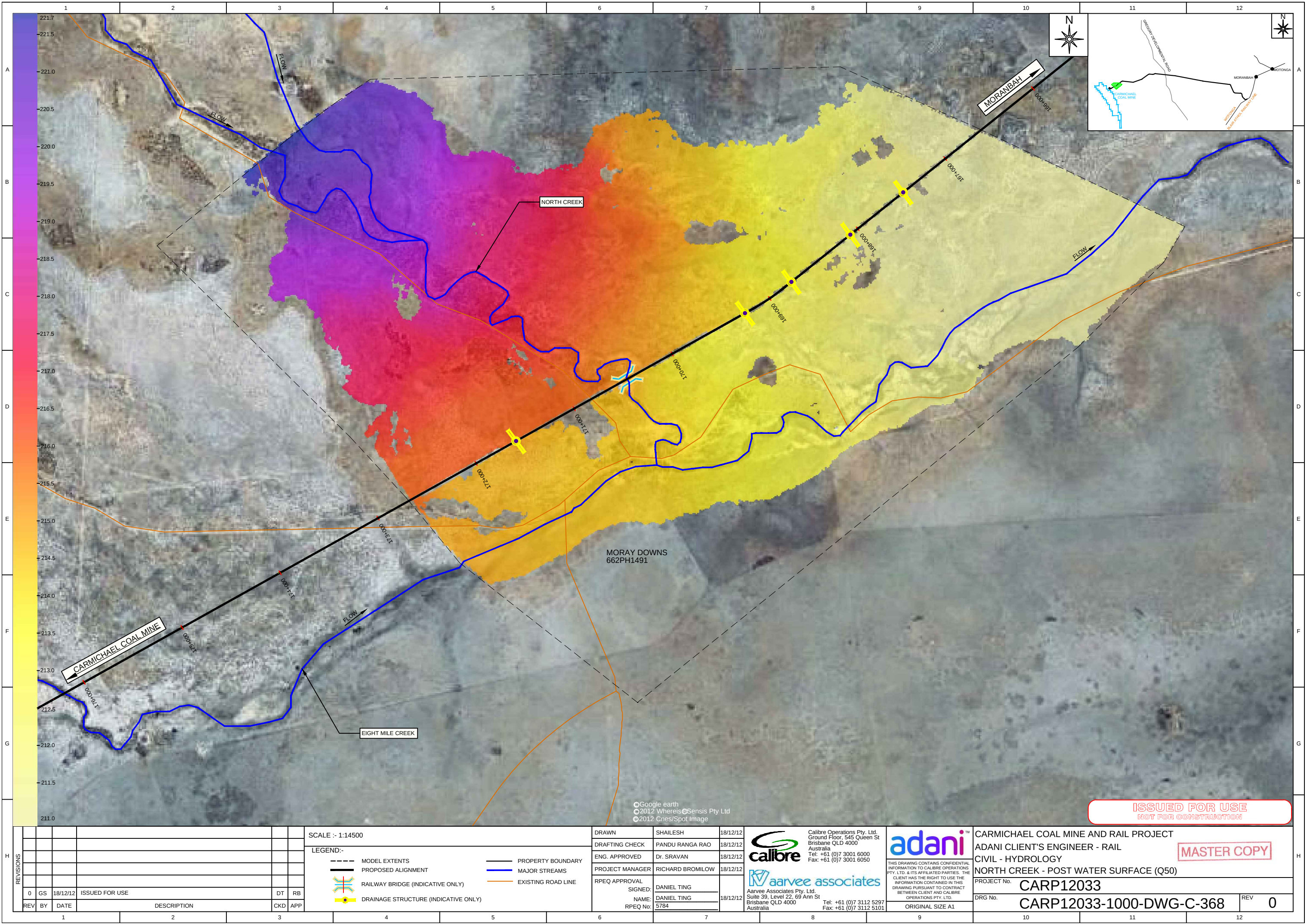


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CARMICHAEL COAL MINE AND RAIL PROJECT		
ADANI CLIENT'S ENGINEER - RAIL		
CIVIL - HYDROLOGY		
NORTH CREEK - PRE VELOCITY (Q50)		
PROJECT No.	CARP12033	
DRG No.	CARP12033-1000-DWG-C-366	REV 0



H	REVISIONS				SCALE :- 1:14500				DRAWN				SHAILESH				18/12/12				<			
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REVISIONS							
REV	BY	DATE	DESCRIPTION	CKD	APP		
0	GS	18/12/12	ISSUED FOR USE	DT	RB		

SCALE :- 1:14500			
LEGEND:-			
	MODEL EXTENTS		PROPERTY BOUNDARY
	PROPOSED ALIGNMENT		MAJOR STREAMS
	RAILWAY BRIDGE (INDICATIVE ONLY)		EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)		

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

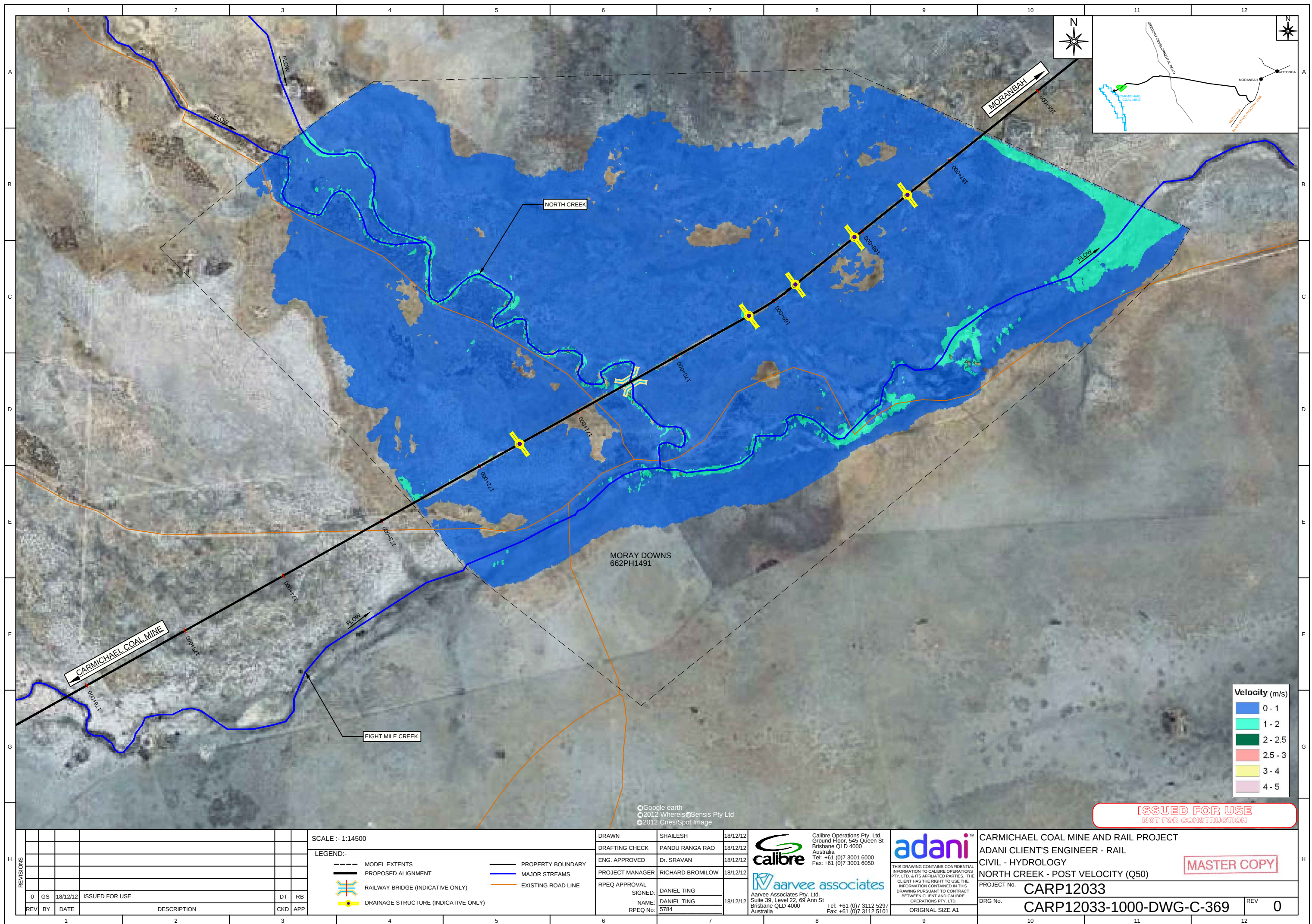
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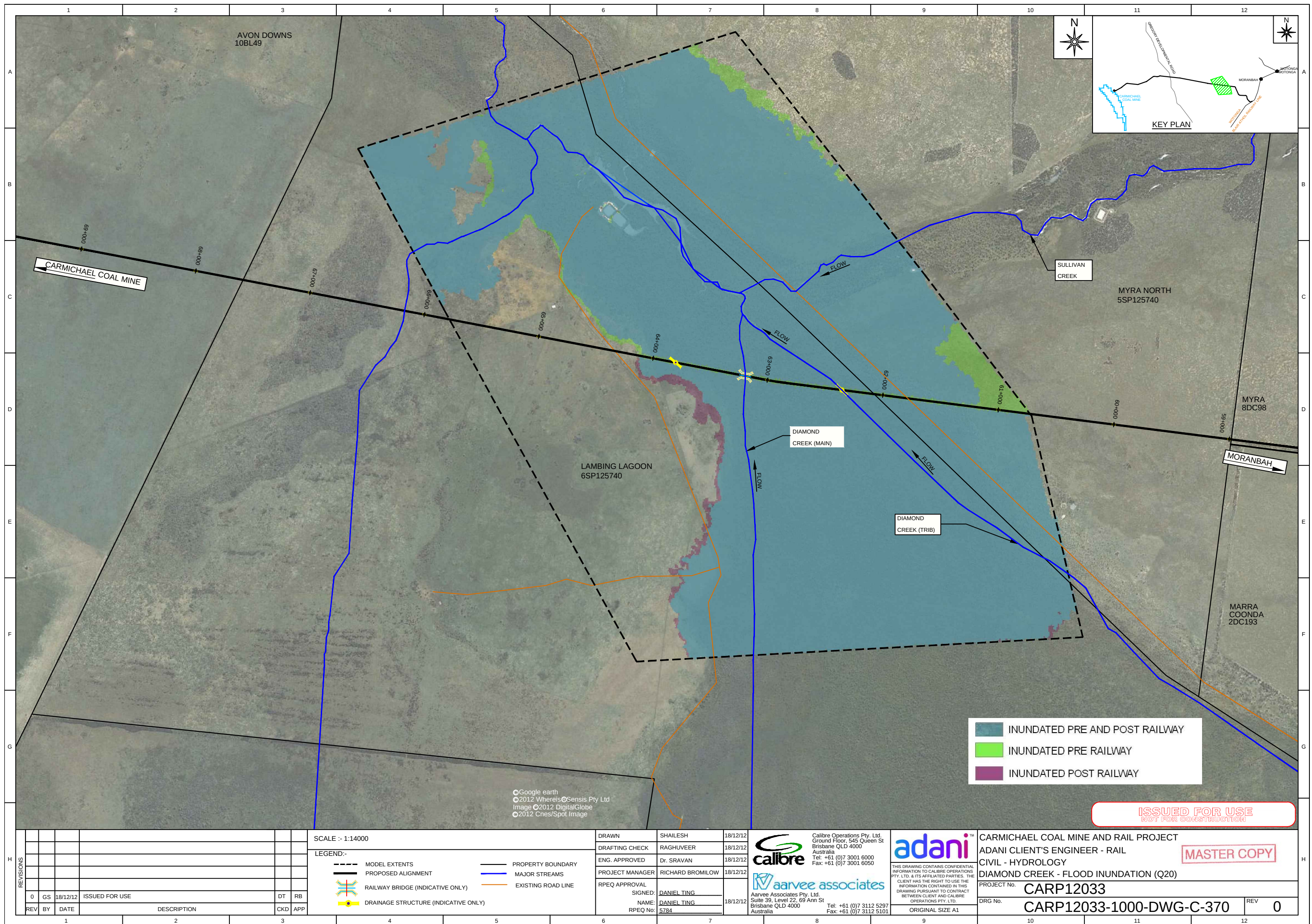
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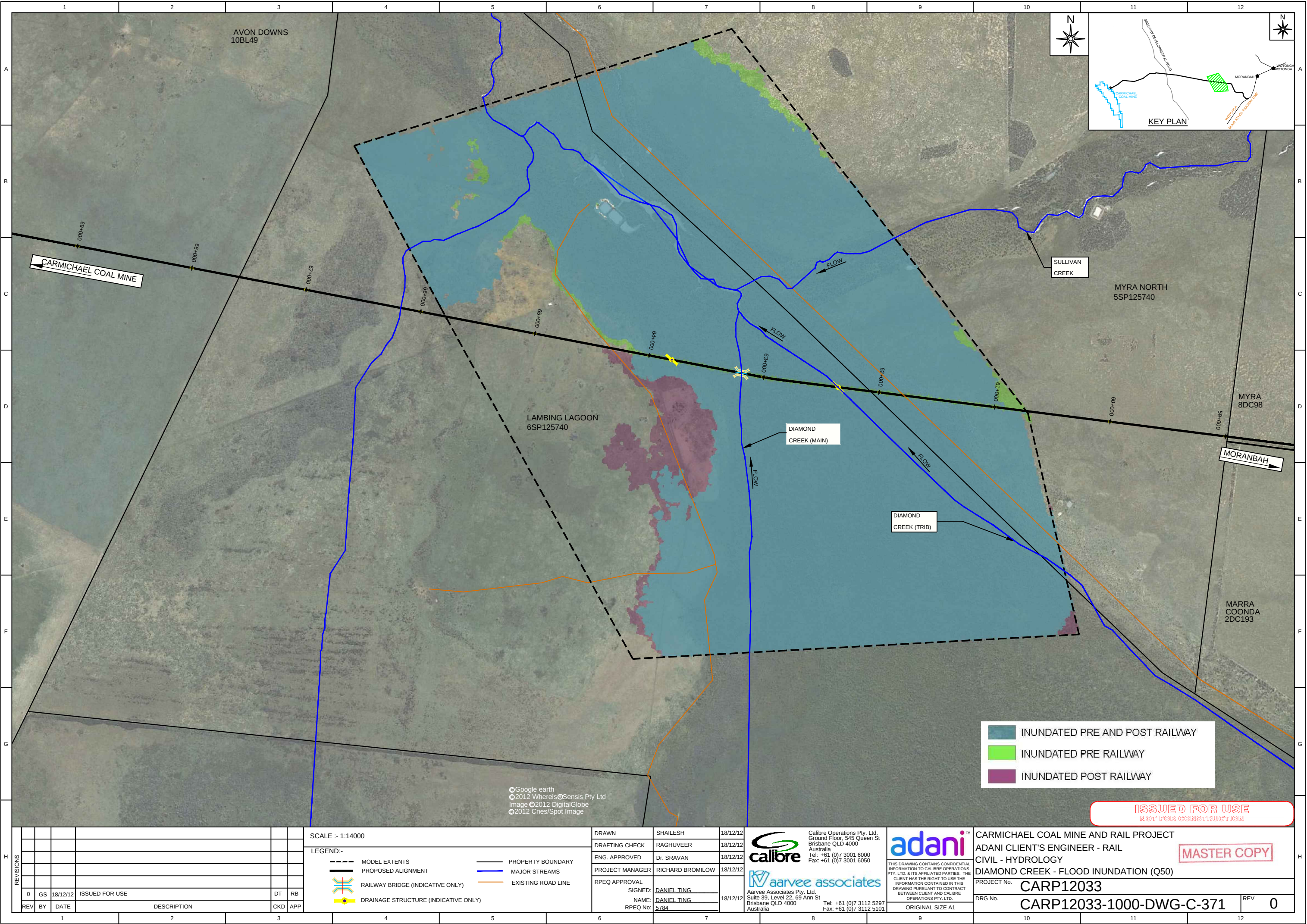
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT			
ADANI CLIENT'S ENGINEER - RAIL			
CIVIL - HYDROLOGY			
NORTH CREEK - POST WATER SURFACE (Q50)			
PROJECT No.	CARP12033		
DRG No.	CARP12033-1000-DWG-C-368		
REV	0		







INUNDATED PRE AND POST RAILWAY

INUNDATED PRE RAILWAY

INUNDATED POST RAILWAY

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REVISIONS						
	0	GS	18/12/12	ISSUED FOR USE		DT RB
REV	BY	DATE	DESCRIPTION		CKD	APP

SCALE :- 1:14000

LEGEND:-

MODEL EXTENTS

PROPOSED ALIGNMENT

RAILWAY BRIDGE (INDICATIVE ONLY)

DRAINAGE STRUCTURE (INDICATIVE ONLY)

PROPERTY BOUNDARY

MAJOR STREAMS

EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	DR. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOV	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

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ORIGINAL SIZE A1

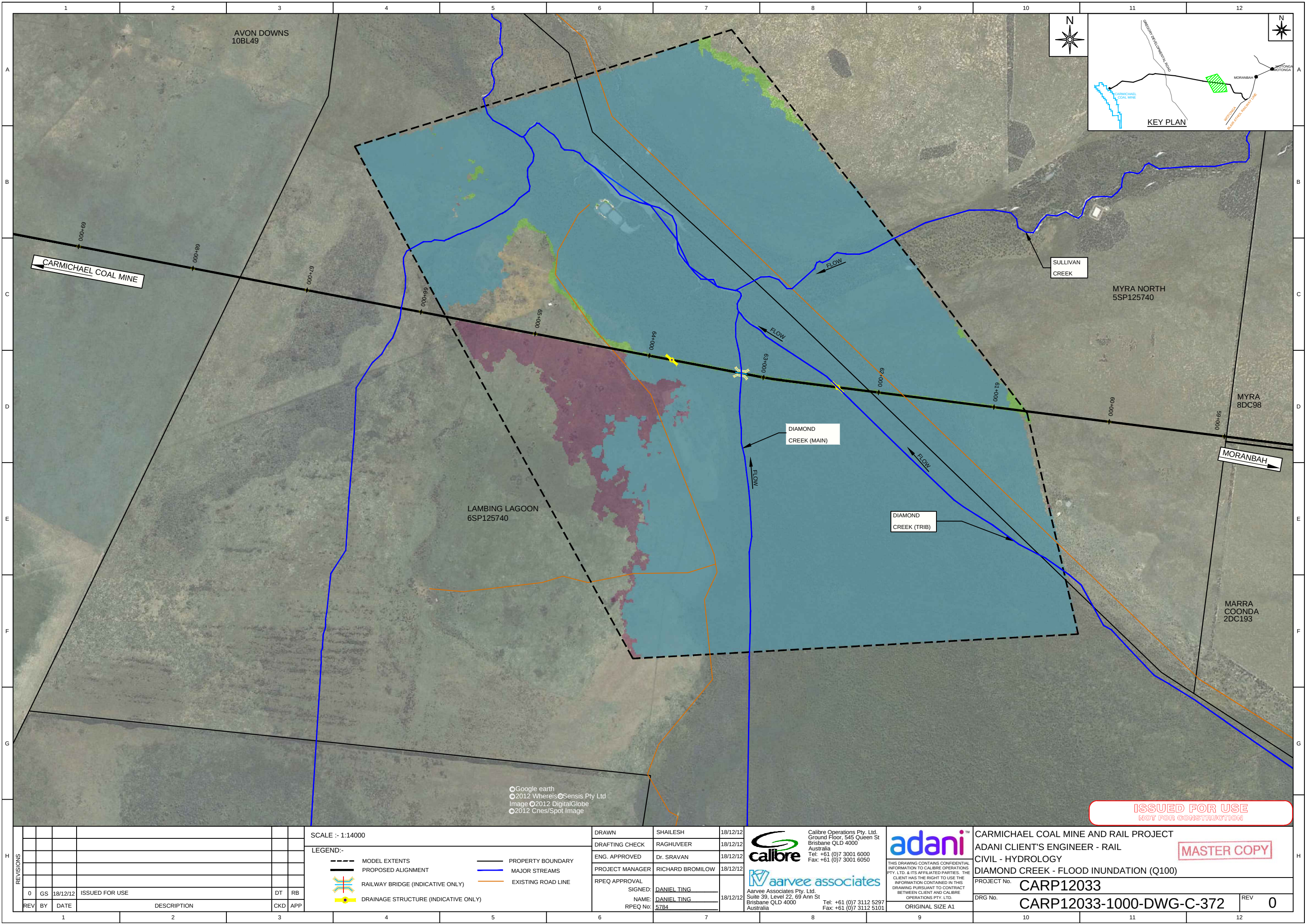
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
DIAMOND CREEK - FLOOD INUNDATION (Q50)

PROJECT NO. CARP12033

DRG NO. CARP12033-1000-DWG-C-371

REV 0

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SCALE :- 1:14000	
LEGEND:-	
	MODEL EXTENTS
	PROPOSED ALIGNMENT
	MAJOR STREAMS
	PROPERTY BOUNDARY
	EXISTING ROAD LINE
	RAILWAY BRIDGE (INDICATIVE ONLY)
	DRAINAGE STRUCTURE (INDICATIVE ONLY)

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	DR. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOV	18/12/12
RPEQ APPROVAL	SIGNED: DANIEL TING	
	NAME: DANIEL TING	18/12/12
	RPEQ No: 5784	

Calibre Operations Pty. Ltd.
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Brisbane QLD 4000
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Tel: +61 (0)7 3001 6000
Fax: +61 (0)7 3001 6050

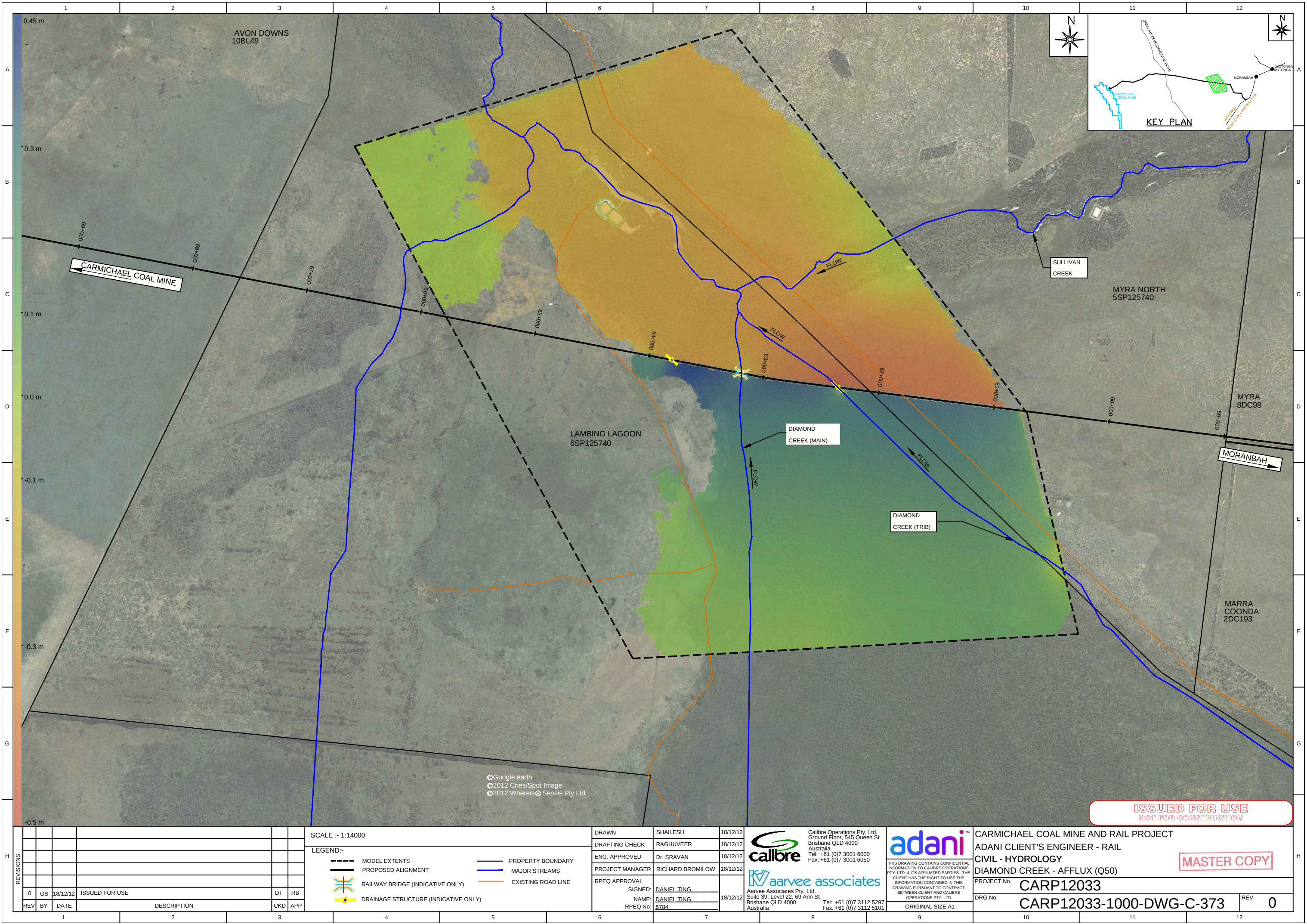
Aarvee Associates Pty. Ltd.
Suite 39, Level 22, 69 Ann St
Brisbane QLD 4000
Australia
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Fax: +61 (0)7 3112 5101

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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT	
ADANI CLIENT'S ENGINEER - RAIL	
CIVIL - HYDROLOGY	
DIAMOND CREEK - FLOOD INUNDATION (Q100)	
PROJECT No.	CARP12033
DRG No.	CARP12033-1000-DWG-C-372
REV	0

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SCALE :- 1:14000

LEGEND:-

- MODEL EXTENTS
- PROPOSED ALIGNMENT
- RAILWAY BRIDGE (INDICATIVE ONLY)
- DRAINAGE STRUCTURE (INDICATIVE ONLY)
- PROPERTY BOUNDARY
- MAJOR STREAMS
- EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	DR. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

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ORIGINAL SIZE A1

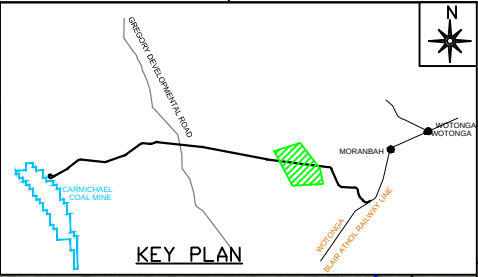
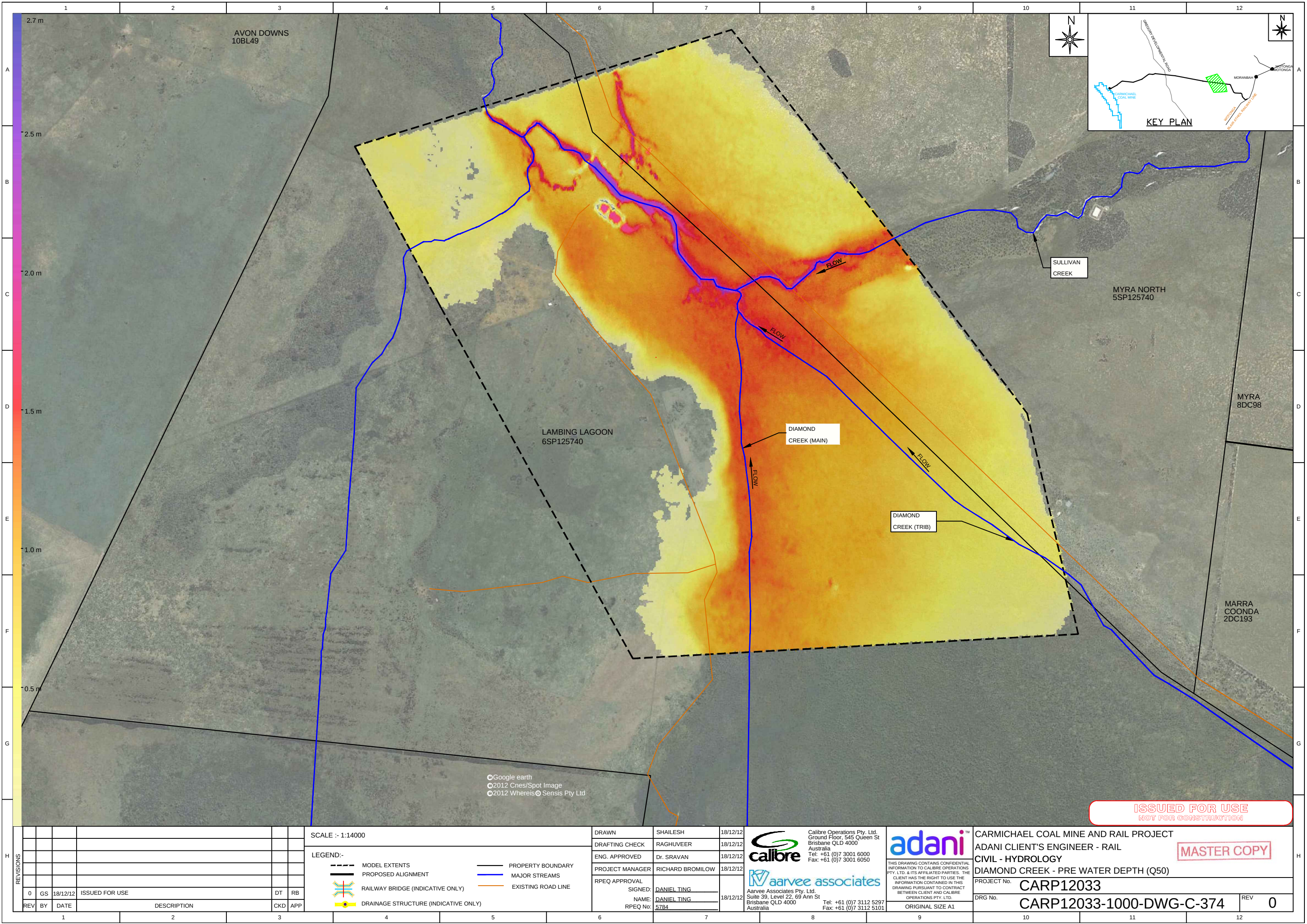
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
DIAMOND CREEK - AFFLUX (Q50)

PROJECT No. **CARP12033**

DRG No. **CARP12033-1000-DWG-C-373**

REV **0**

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SCALE :- 1:14000

LEGEND:-

	MODEL EXTENTS		PROPERTY BOUNDARY
	PROPOSED ALIGNMENT		MAJOR STREAMS
	RAILWAY BRIDGE (INDICATIVE ONLY)		EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)		

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOV	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

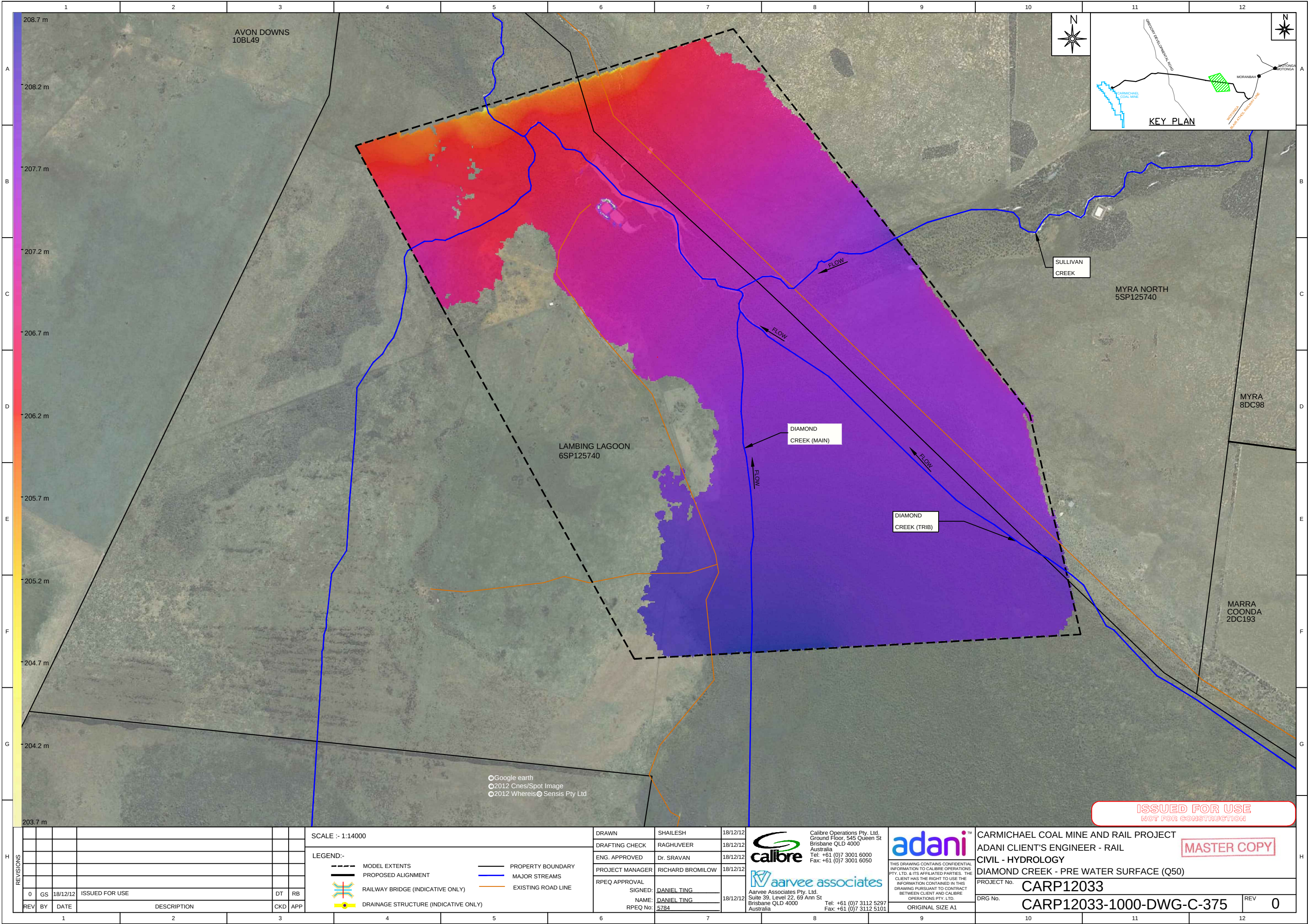
Calibre Operations Pty. Ltd.
Ground Floor, 545 Queen St
Brisbane QLD 4000
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Tel: +61 (0)7 3001 6000
Fax: +61 (0)7 3001 6050

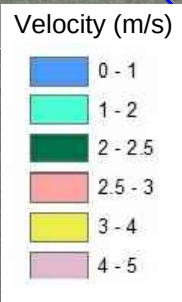
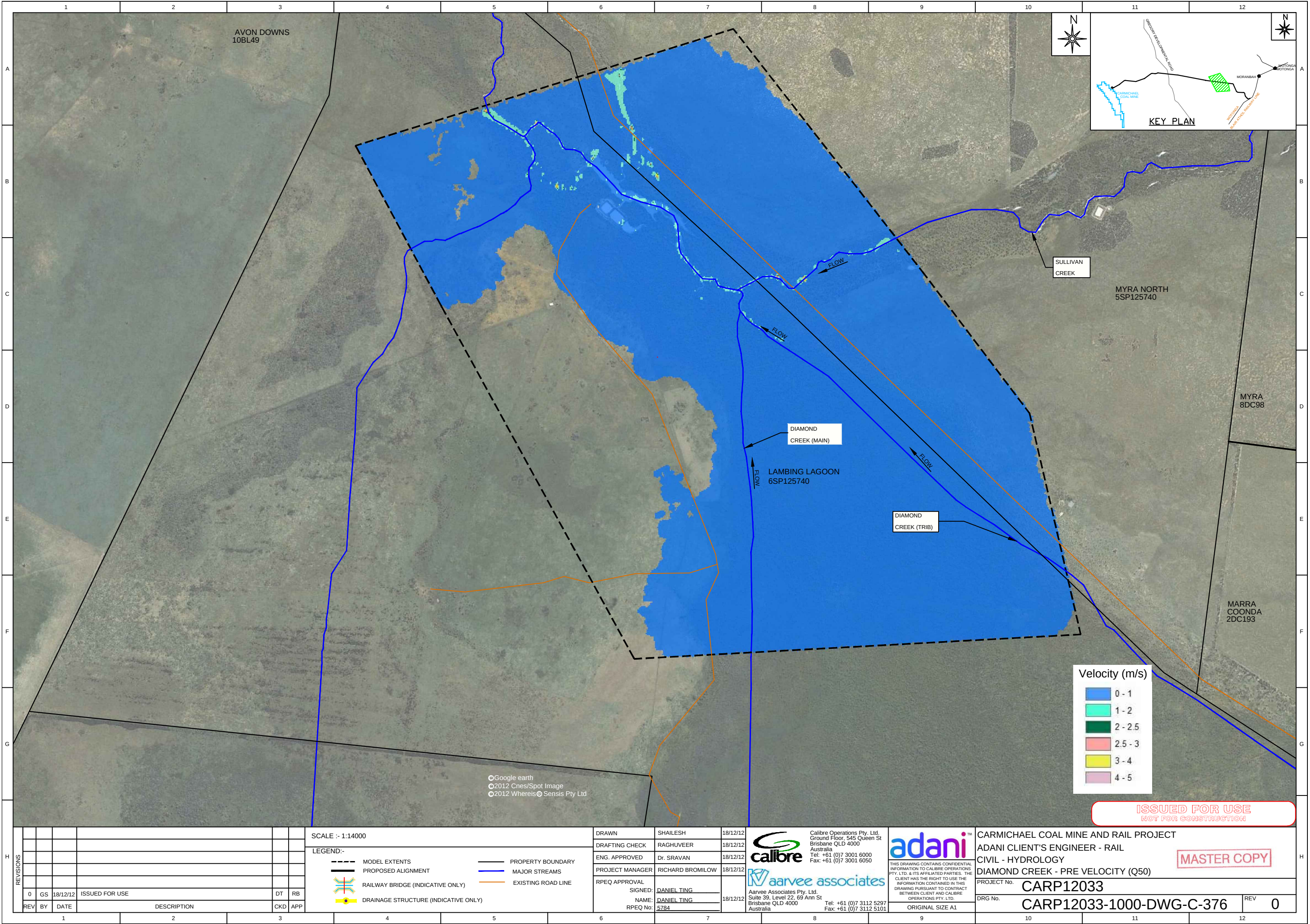
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Brisbane QLD 4000
Australia
Tel: +61 (0)7 3112 5297
Fax: +61 (0)7 3112 5101

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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT		
ADANI CLIENT'S ENGINEER - RAIL		
CIVIL - HYDROLOGY		
DIAMOND CREEK - PRE WATER DEPTH (Q50)		
PROJECT No.	CARP12033	
DRG No.	CARP12033-1000-DWG-C-374	REV 0





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LEGEND:-			
	MODEL EXTENTS		PROPERTY BOUNDARY
	PROPOSED ALIGNMENT		MAJOR STREAMS
	RAILWAY BRIDGE (INDICATIVE ONLY)		EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)		

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOV	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

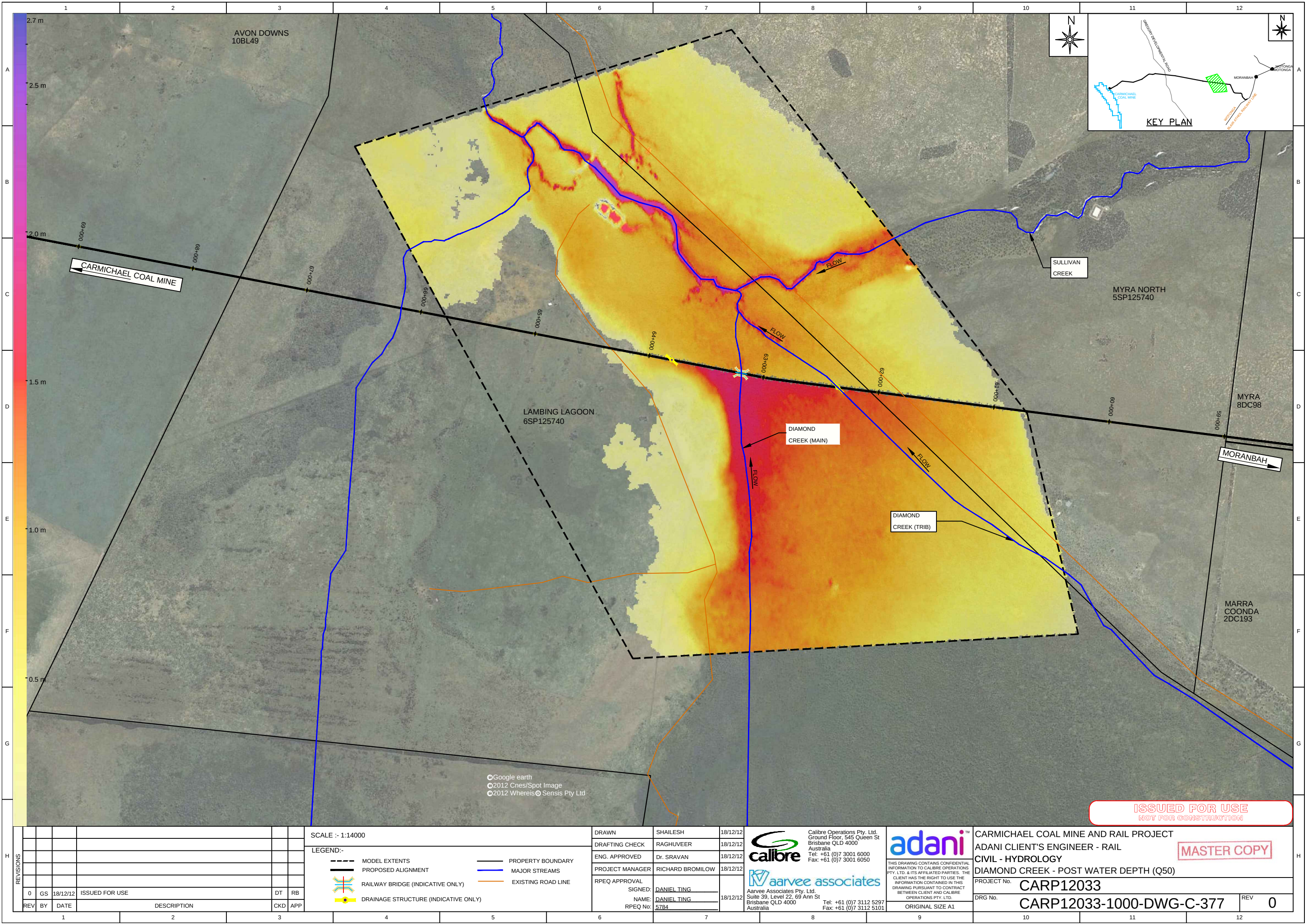
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT			
ADANI CLIENT'S ENGINEER - RAIL			
CIVIL - HYDROLOGY			
DIAMOND CREEK - PRE VELOCITY (Q50)			
PROJECT No.	CARP12033		
DRG No.	CARP12033-1000-DWG-C-376		
REV	0		



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LEGEND:-

MODEL EXTENTS

PROPOSED ALIGNMENT

RAILWAY BRIDGE (INDICATIVE ONLY)

DRAINAGE STRUCTURE (INDICATIVE ONLY)

PROPERTY BOUNDARY

MAJOR STREAMS

EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	RAGHUVVEER	18/12/12
ENG. APPROVED	DR. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOV	18/12/12
RPEQ APPROVAL	SIGNED: DANIEL TING	18/12/12
	NAME: DANIEL TING	
	RPEQ No: 5784	

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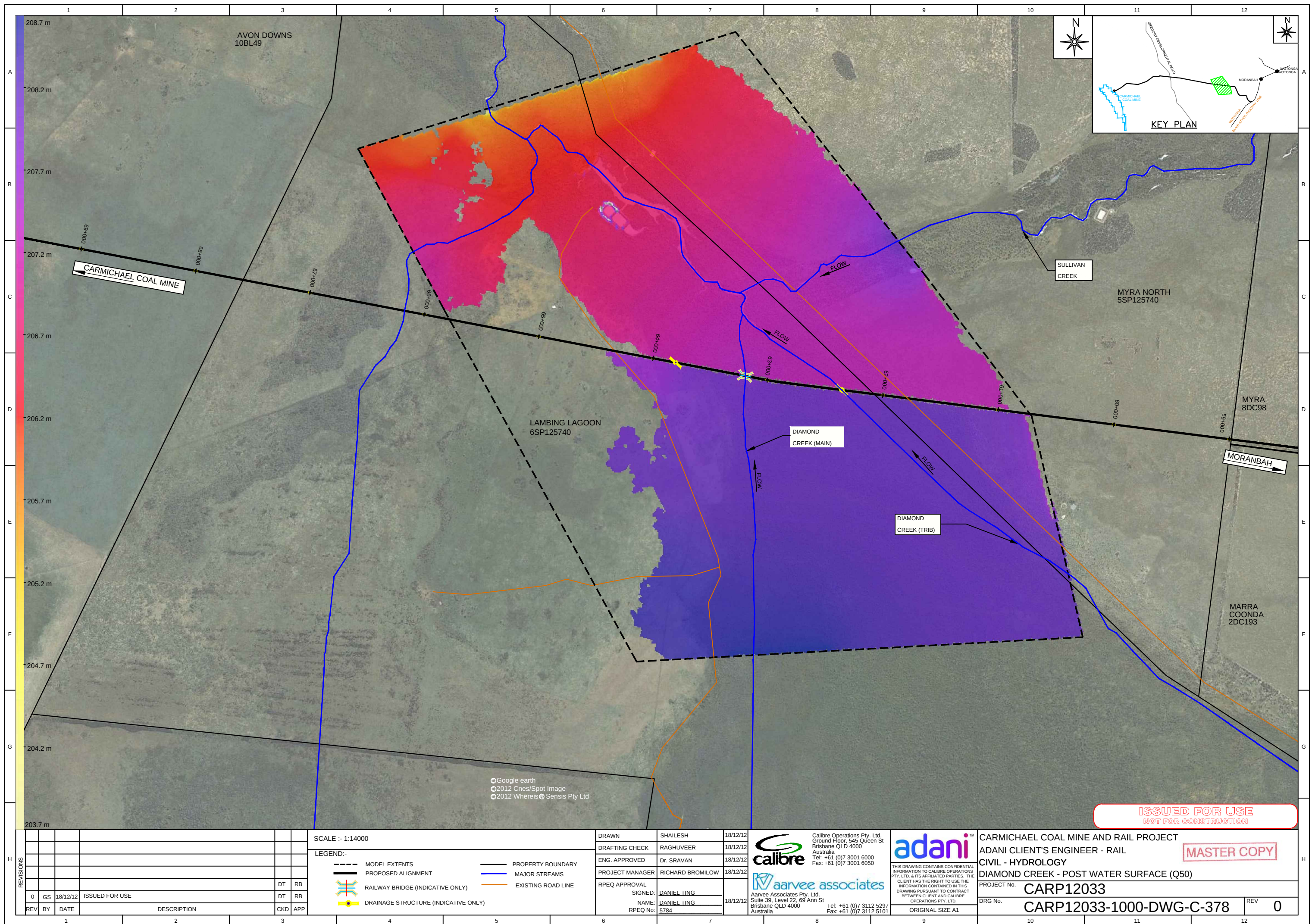
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Brisbane QLD 4000
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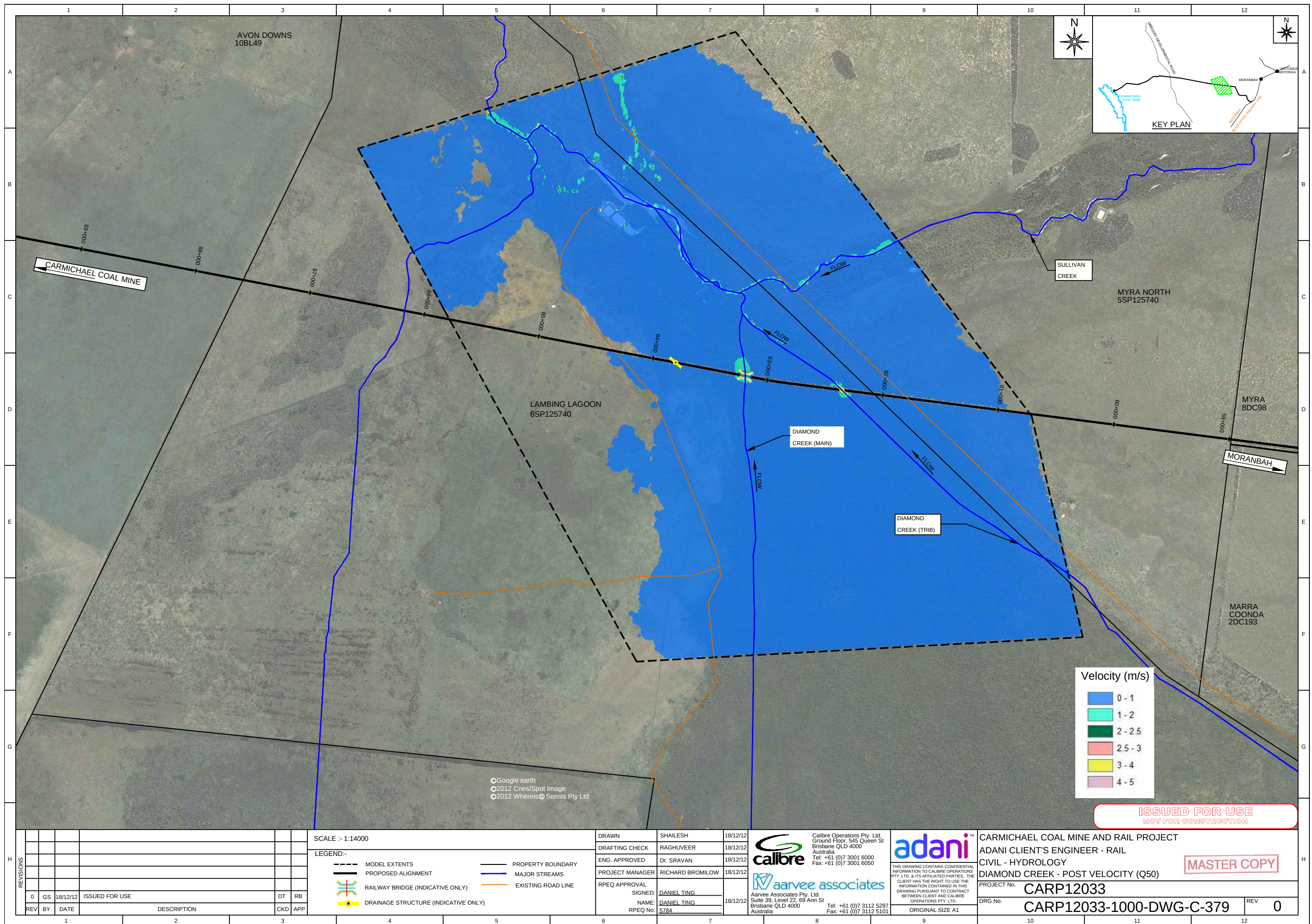
adani

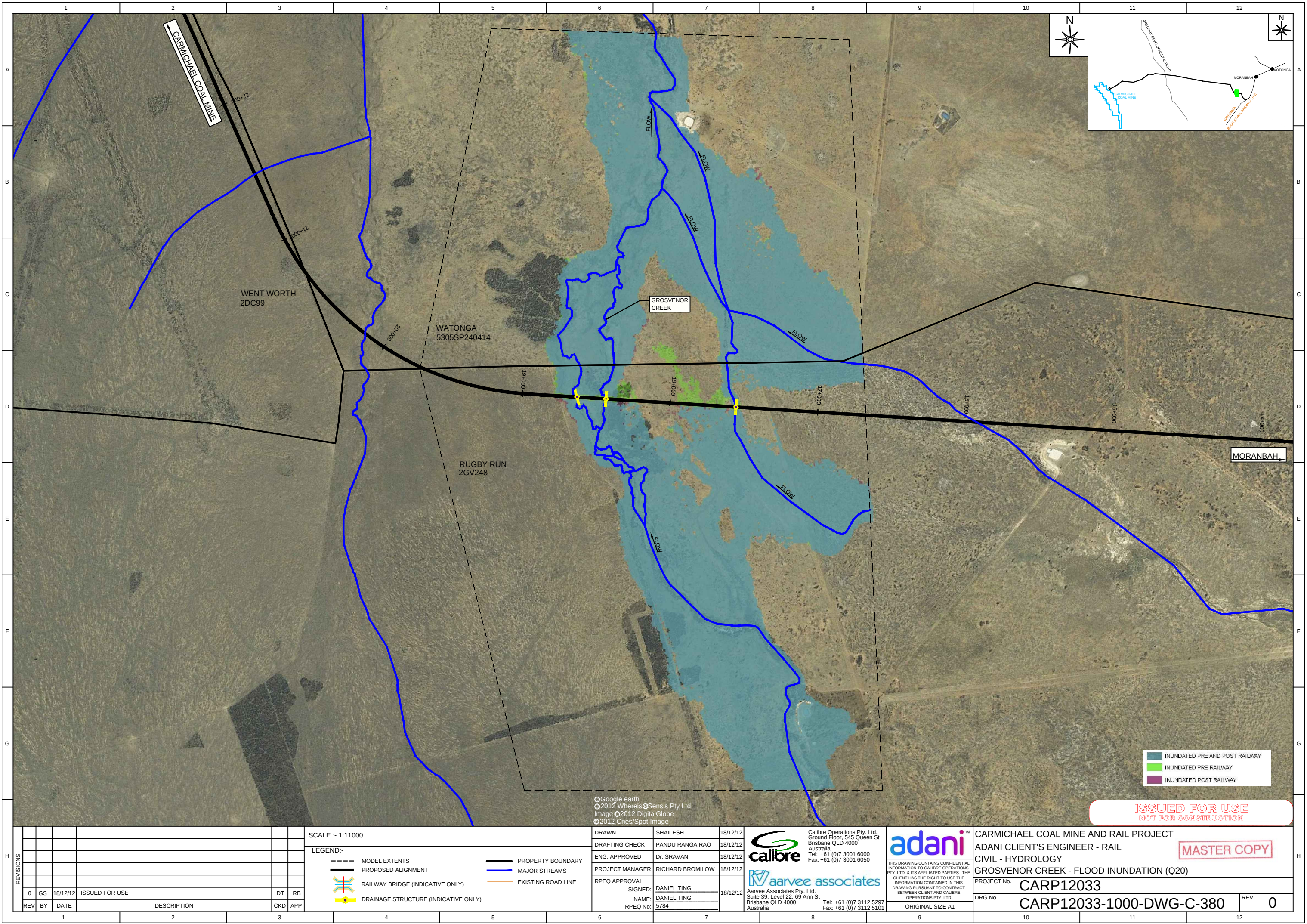
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT		
ADANI CLIENT'S ENGINEER - RAIL		
CIVIL - HYDROLOGY		
DIAMOND CREEK - POST WATER DEPTH (Q50)		
PROJECT No.	CARP12033	
DRG No.	CARP12033-1000-DWG-C-377	REV 0







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SCALE :- 1:11000

LEGEND:-

MODEL EXTENTS

PROPOSED ALIGNMENT

RAILWAY BRIDGE (INDICATIVE ONLY)

DRAINAGE STRUCTURE (INDICATIVE ONLY)

PROPERTY BOUNDARY

MAJOR STREAMS

EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

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ORIGINAL SIZE A1

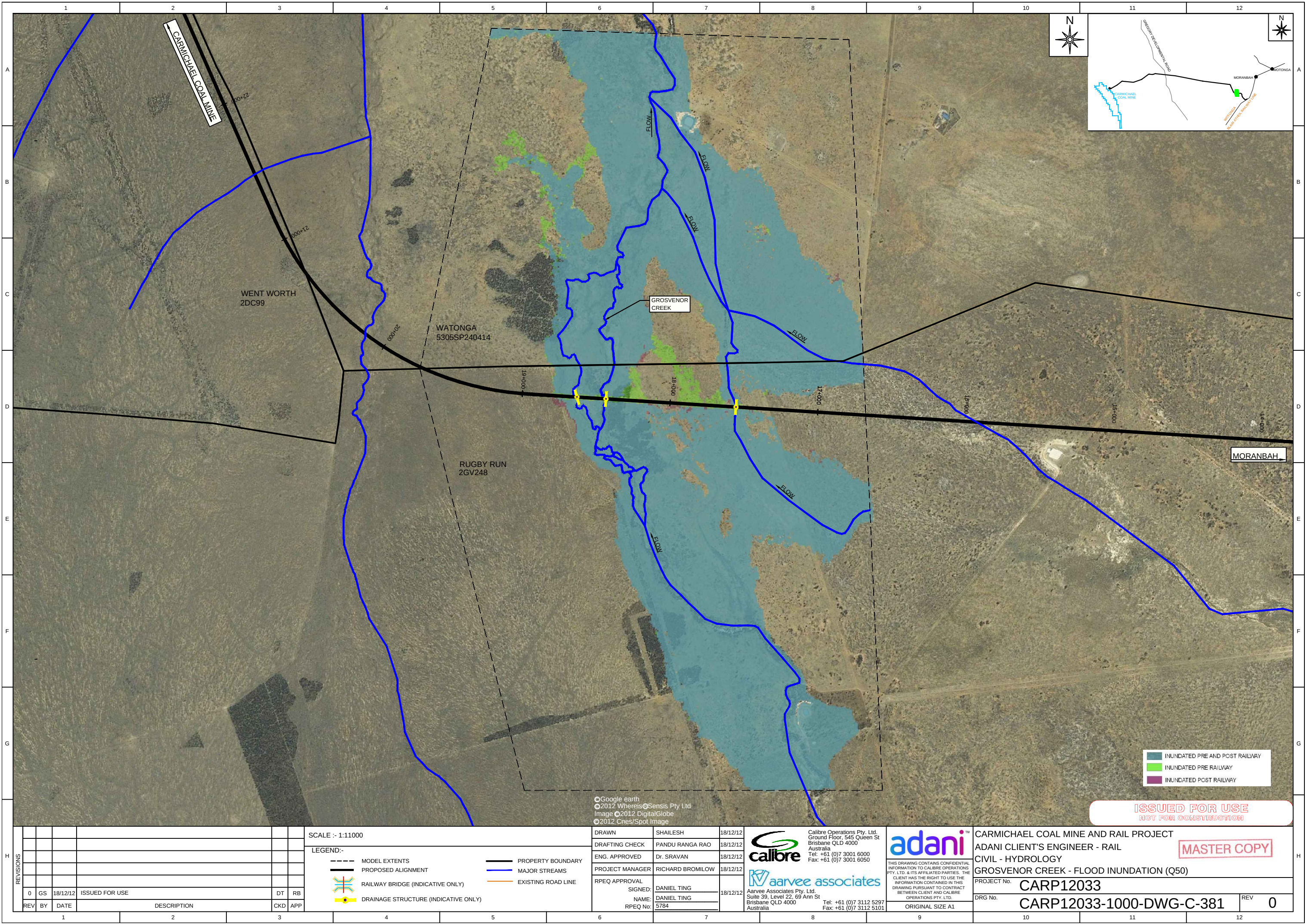
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
GROSVENOR CREEK - FLOOD INUNDATION (Q20)

PROJECT No. **CARP12033**

DRG No. **CARP12033-1000-DWG-C-380**

REV **0**

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INUNDATED PRE AND POST RAILWAY
INUNDATED PRE RAILWAY
INUNDATED POST RAILWAY

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LEGEND:-	
	MODEL EXTENTS
	PROPOSED ALIGNMENT
	MAJOR STREAMS
	RAILWAY BRIDGE (INDICATIVE ONLY)
	EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)
	PROPERTY BOUNDARY

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

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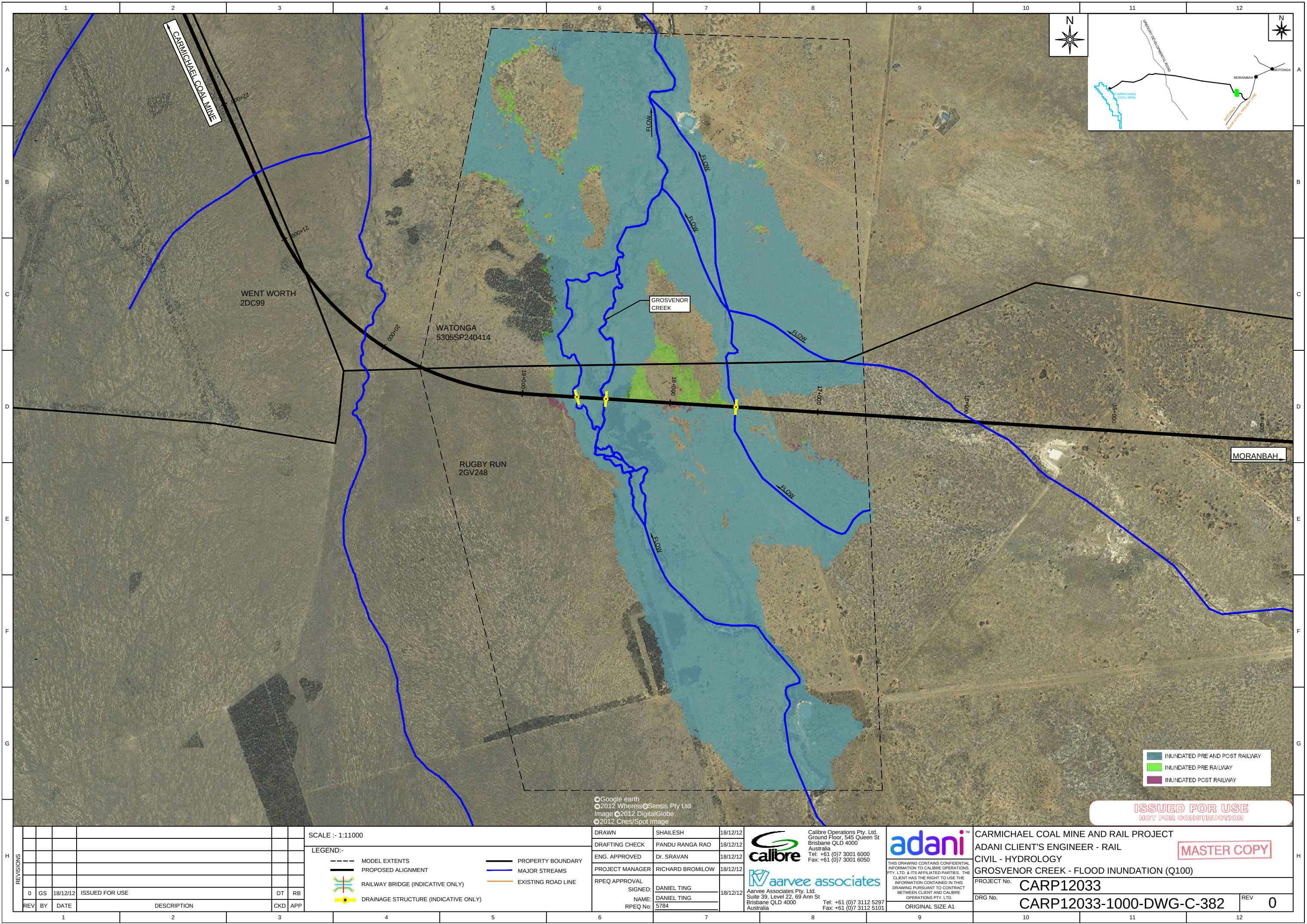
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT	
ADANI CLIENT'S ENGINEER - RAIL	
CIVIL - HYDROLOGY	
GROSVENOR CREEK - FLOOD INUNDATION (Q50)	
PROJECT No.	CARP12033
DRG No.	CARP12033-1000-DWG-C-381
REV	0

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REV	BY	DATE	DESCRIPTION	CKD	APP		
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SCALE :- 1:11000			
LEGEND:-			
---	MODEL EXTENTS	---	PROPERTY BOUNDARY
---	PROPOSED ALIGNMENT	---	MAJOR STREAMS
---	RAILWAY BRIDGE (INDICATIVE ONLY)	---	EXISTING ROAD LINE
---	DRAINAGE STRUCTURE (INDICATIVE ONLY)		

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
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SIGNED:	DANIEL TING	18/12/12
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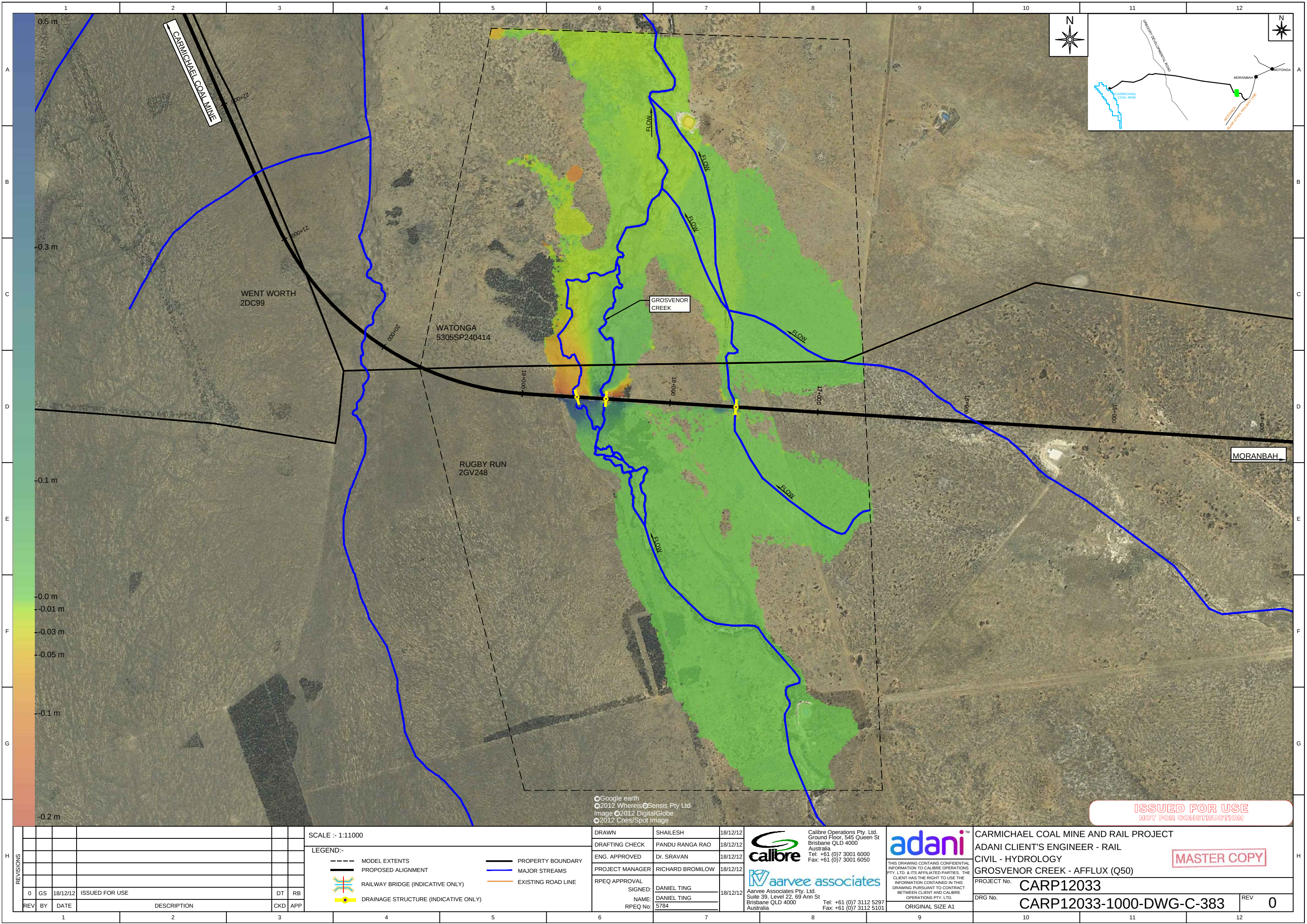
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT			
ADANI CLIENT'S ENGINEER - RAIL			
CIVIL - HYDROLOGY			
GROSVENOR CREEK - FLOOD INUNDATION (Q100)			
PROJECT NO.	CARP12033		
DRG No.	CARP12033-1000-DWG-C-382		
REV	0		



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LEGEND:-

- MODEL EXTENTS
- PROPOSED ALIGNMENT
- PROPERTY BOUNDARY
- MAJOR STREAMS
- RAILWAY BRIDGE (INDICATIVE ONLY)
- EXISTING ROAD LINE
- DRAINAGE STRUCTURE (INDICATIVE ONLY)

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

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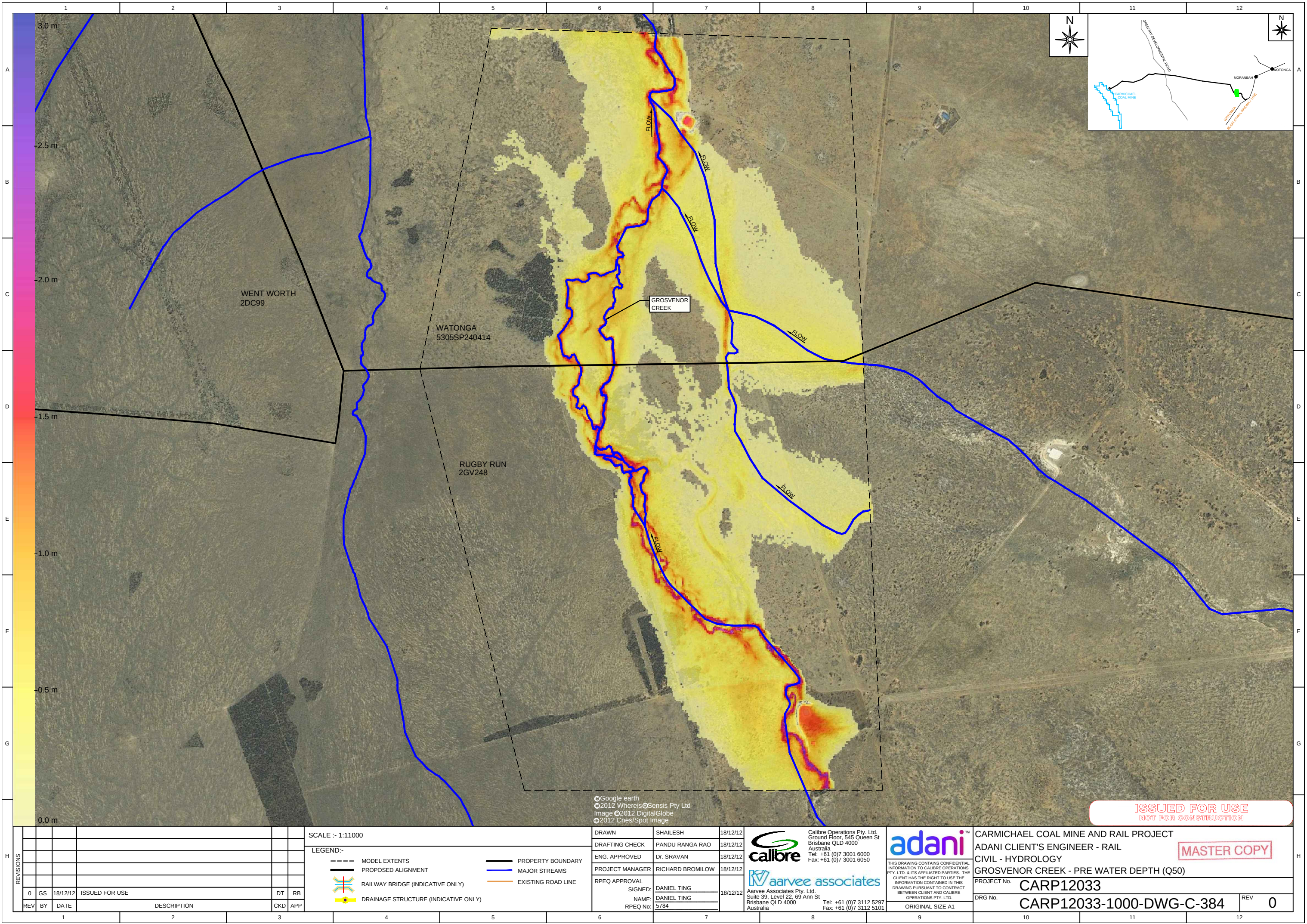
aarvee associates
Aarvee Associates Pty. Ltd.
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BETWEEN CLIENT AND CALIBRE
OPERATIONS PTY. LTD.

CARMICHAEL COAL MINE AND RAIL PROJECT		
ADANI CLIENT'S ENGINEER - RAIL		
CIVIL - HYDROLOGY		
GROSVENOR CREEK - AFFLUX (Q50)		
PROJECT No.	CARP12033	
DRG No.	CARP12033-1000-DWG-C-383	REV 0

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LEGEND:-

- MODEL EXTENTS
- PROPOSED ALIGNMENT
- PROPERTY BOUNDARY
- MAJOR STREAMS
- RAILWAY BRIDGE (INDICATIVE ONLY)
- EXISTING ROAD LINE
- DRAINAGE STRUCTURE (INDICATIVE ONLY)

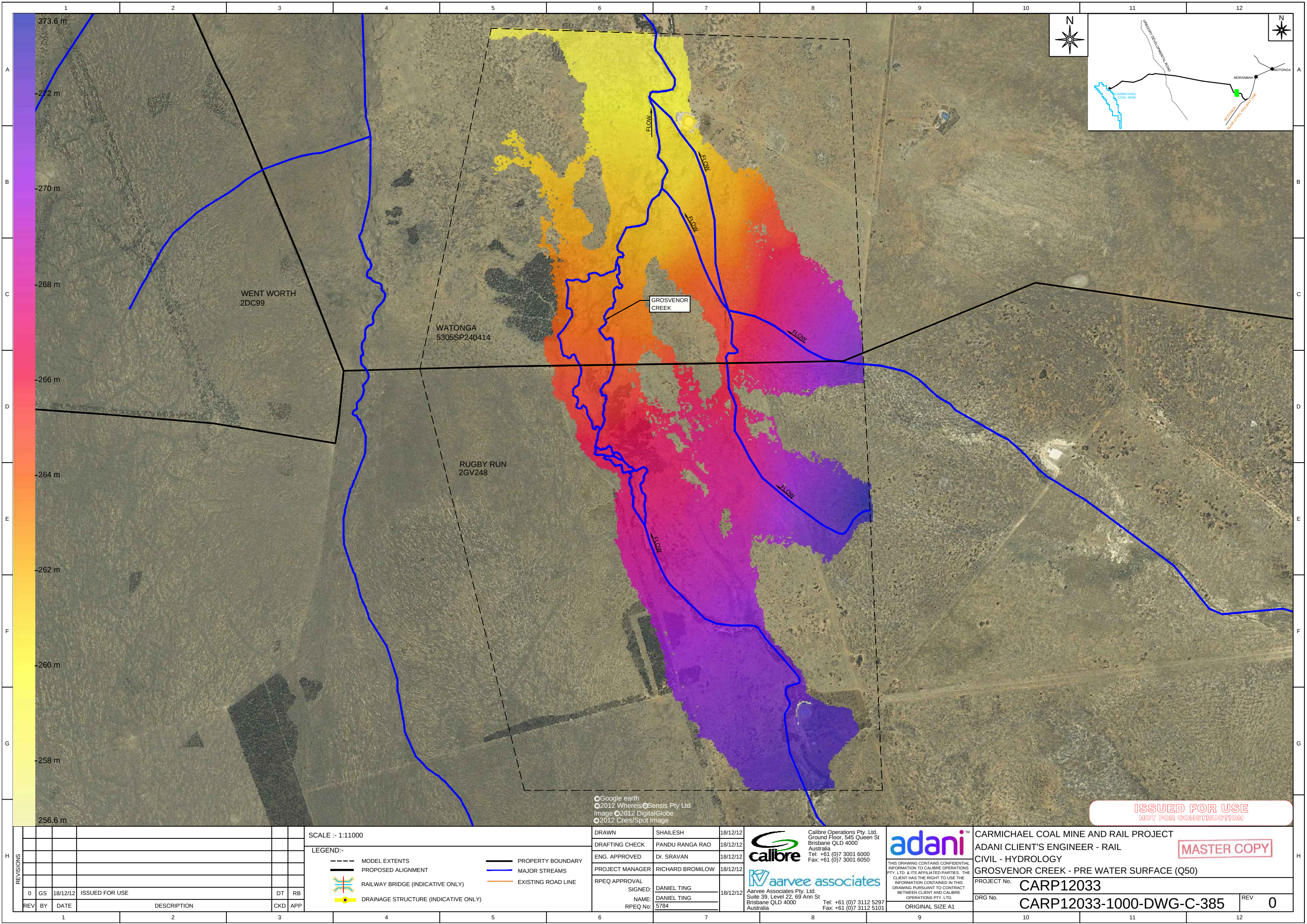
DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
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OPERATIONS PTY. LTD.

CARMICHAEL COAL MINE AND RAIL PROJECT		
ADANI CLIENT'S ENGINEER - RAIL		
CIVIL - HYDROLOGY		
GROSVENOR CREEK - PRE WATER DEPTH (Q50)		
PROJECT No.	CARP12033	
DRG No.	CARP12033-1000-DWG-C-384	REV 0



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SCALE :- 1:11000			
LEGEND:-			
---	MODEL EXTENTS	---	PROPERTY BOUNDARY
---	PROPOSED ALIGNMENT	---	MAJOR STREAMS
---	RAILWAY BRIDGE (INDICATIVE ONLY)	---	EXISTING ROAD LINE
---	DRAINAGE STRUCTURE (INDICATIVE ONLY)		

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	



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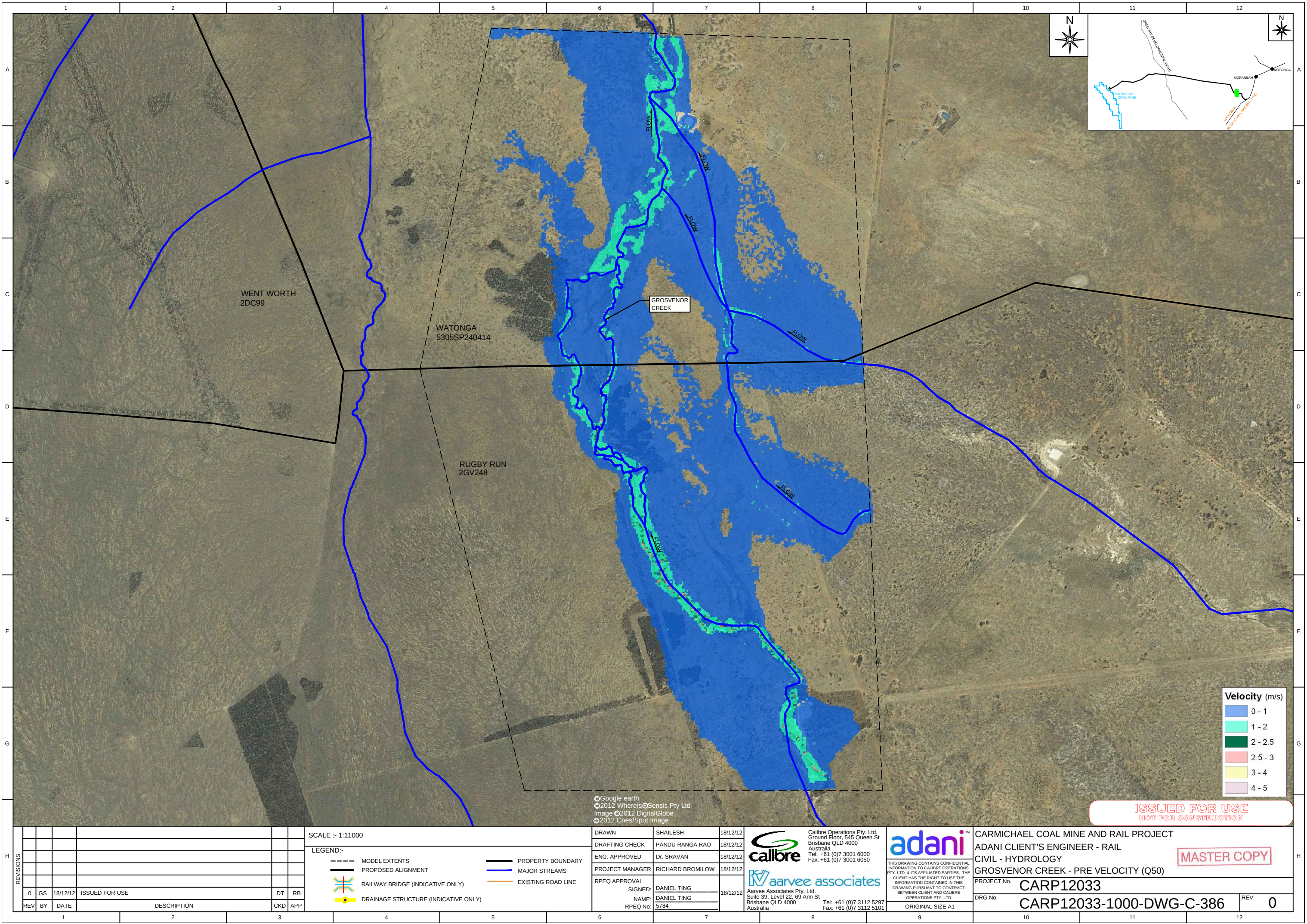
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
GROSVENOR CREEK - PRE WATER SURFACE (Q50)

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PROJECT No.	CARP12033	
DRG No.	CARP12033-1000-DWG-C-385	REV 0



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SCALE :- 1:11000			
LEGEND:-			
	MODEL EXTENTS		PROPERTY BOUNDARY
	PROPOSED ALIGNMENT		MAJOR STREAMS
	RAILWAY BRIDGE (INDICATIVE ONLY)		EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)		
	4	5	

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
RPEQ APPROVAL		
SIGNED:	DANIEL TING	18/12/12
NAME:	DANIEL TING	
RPEQ No:	5784	

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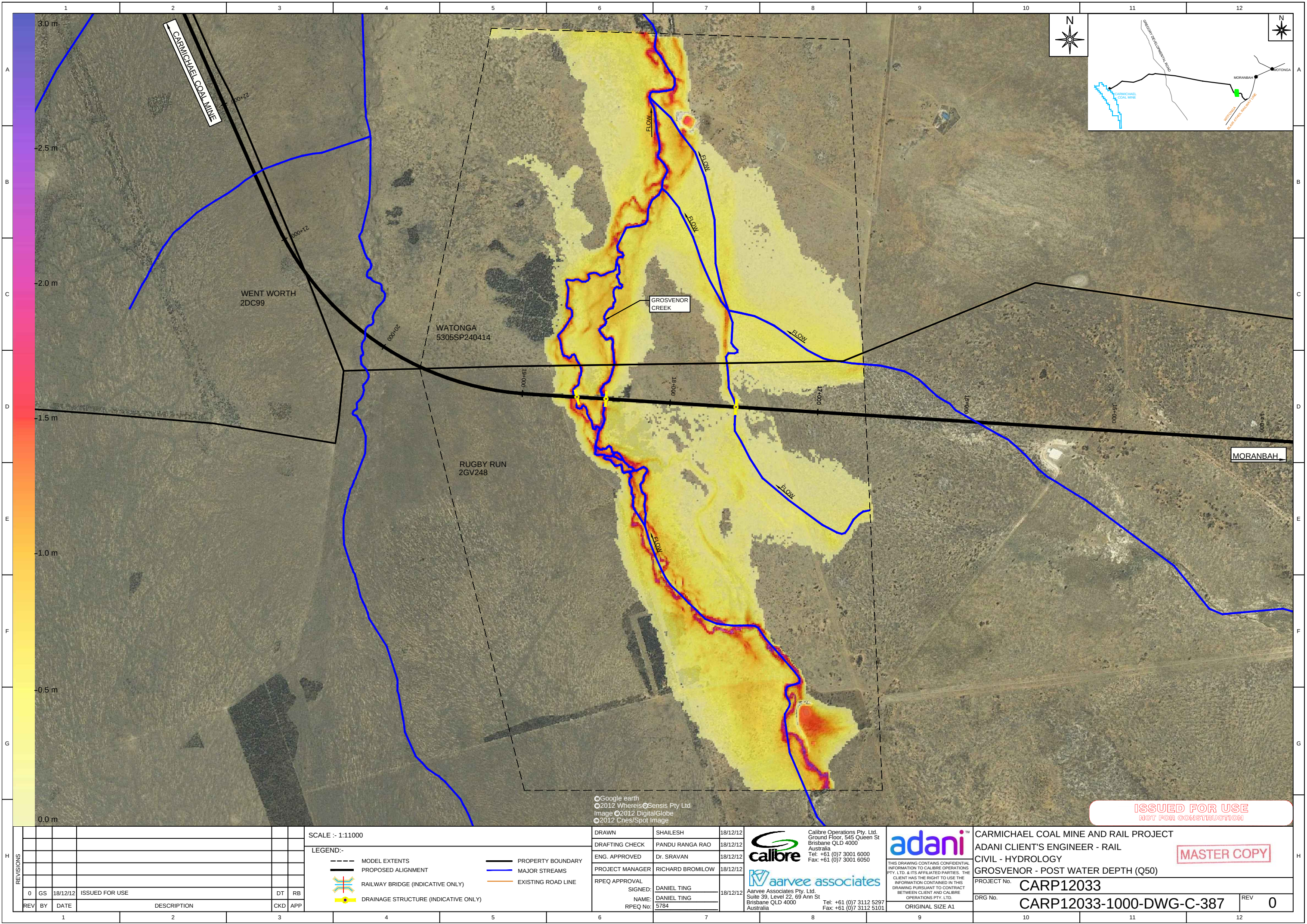
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
GROSVENOR CREEK - PRE VELOCITY (Q50)

MASTER COPY

PROJECT No.	CARP12033	
DRG No.	CARP12033-1000-DWG-C-386	REV 0



REVISIONS						
	0	GS	18/12/12	ISSUED FOR USE	DT	RB
REV	BY	DATE	DESCRIPTION		CKD	APP
			1	2	3	

SCALE :- 1:11000

LEGEND:-

- MODEL EXTENTS
- PROPOSED ALIGNMENT
- RAILWAY BRIDGE (INDICATIVE ONLY)
- DRAINAGE STRUCTURE (INDICATIVE ONLY)
- PROPERTY BOUNDARY
- MAJOR STREAMS
- EXISTING ROAD LINE

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
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ORIGINAL SIZE A1

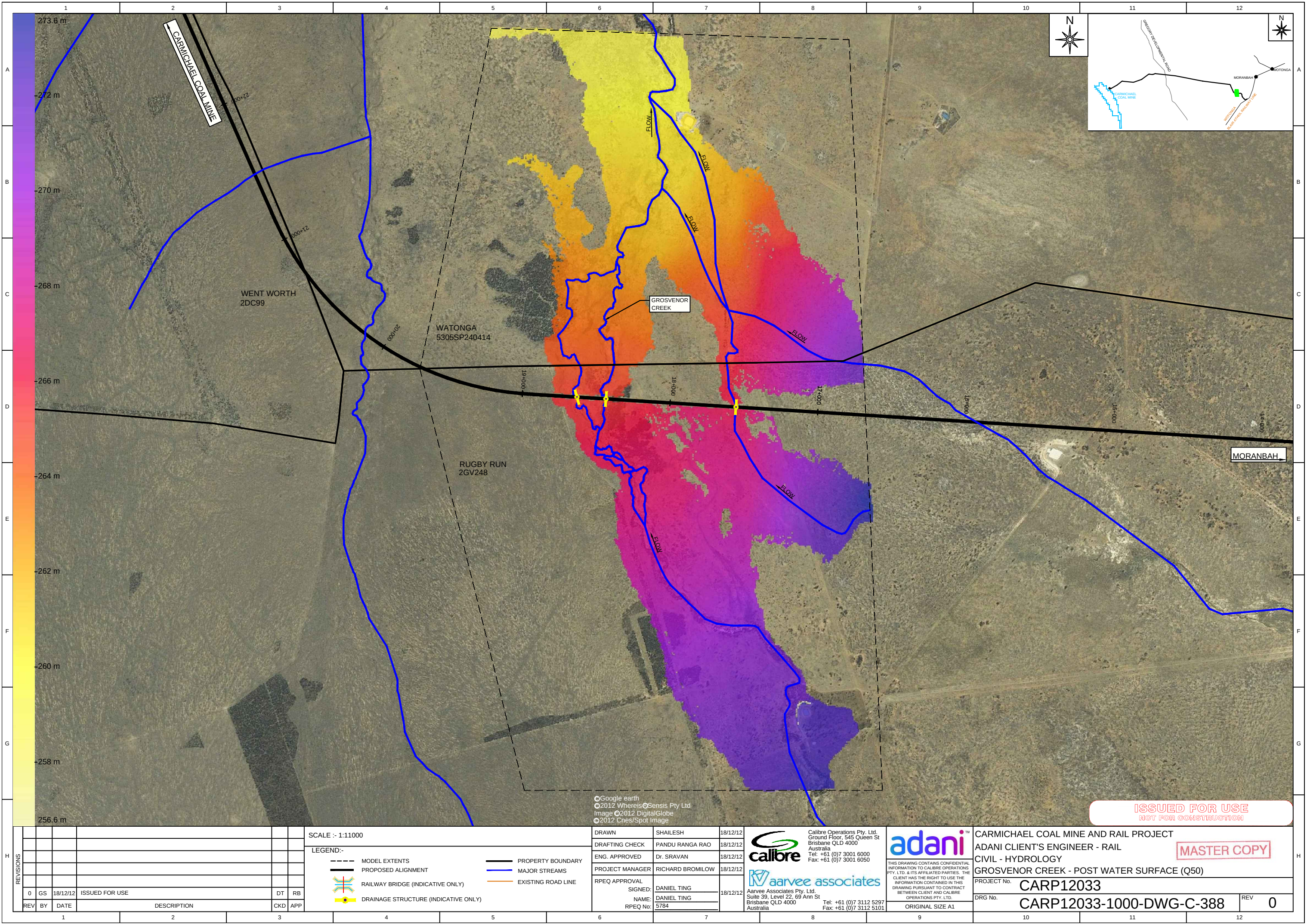
CARMICHAEL COAL MINE AND RAIL PROJECT
ADANI CLIENT'S ENGINEER - RAIL
CIVIL - HYDROLOGY
GROSVENOR - POST WATER DEPTH (Q50)

PROJECT No. **CARP12033**

DRG No. **CARP12033-1000-DWG-C-387**

REV **0**

MASTER COPY



ISSUED FOR USE
NOT FOR CONSTRUCTION

REVISIONS						
0	GS	18/12/12	ISSUED FOR USE			DT RB
REV	BY	DATE	DESCRIPTION			CKD APP
1			2		3	
4			5		6	
7			8		9	
10			11		12	

SCALE :- 1:11000			
LEGEND:-			
	MODEL EXTENTS		PROPERTY BOUNDARY
	PROPOSED ALIGNMENT		MAJOR STREAMS
	RAILWAY BRIDGE (INDICATIVE ONLY)		EXISTING ROAD LINE
	DRAINAGE STRUCTURE (INDICATIVE ONLY)		
	4	5	

DRAWN	SHAILESH	18/12/12
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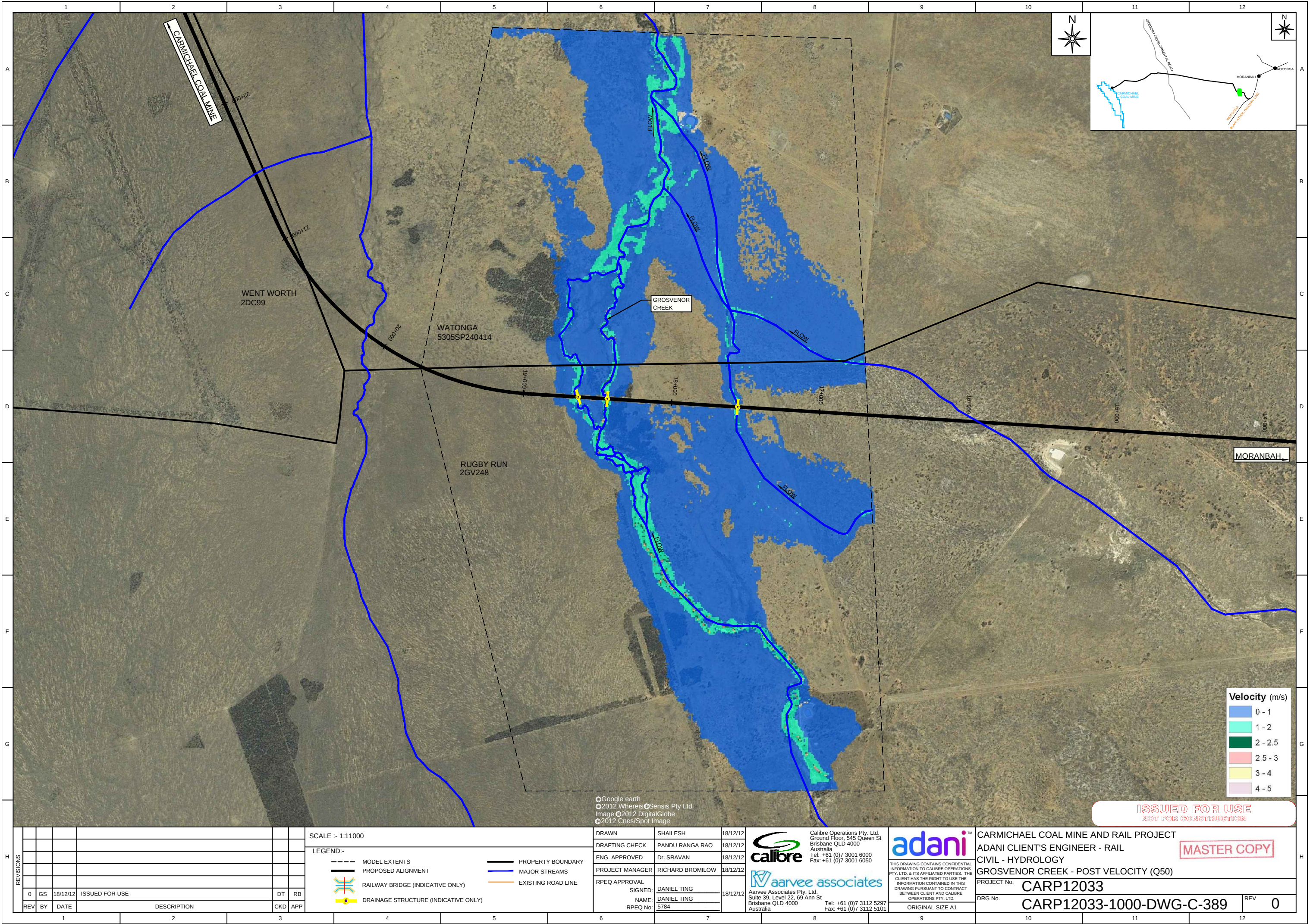
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT			MASTER COPY
ADANI CLIENT'S ENGINEER - RAIL			
CIVIL - HYDROLOGY			
GROSVENOR CREEK - POST WATER SURFACE (Q50)			
PROJECT No.	CARP12033		
DRG No.	CARP12033-1000-DWG-C-388		REV 0
10	11	12	



ISSUED FOR USE
NOT FOR CONSTRUCTION

SCALE :- 1:11000

LEGEND:-

--- MODEL EXTENTS	--- PROPERTY BOUNDARY
--- PROPOSED ALIGNMENT	--- MAJOR STREAMS
--- RAILWAY BRIDGE (INDICATIVE ONLY)	--- EXISTING ROAD LINE
--- DRAINAGE STRUCTURE (INDICATIVE ONLY)	

DRAWN	SHAILESH	18/12/12
DRAFTING CHECK	PANDU RANGA RAO	18/12/12
ENG. APPROVED	Dr. SRAVAN	18/12/12
PROJECT MANAGER	RICHARD BROMILOW	18/12/12
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ORIGINAL SIZE A1

CARMICHAEL COAL MINE AND RAIL PROJECT	
ADANI CLIENT'S ENGINEER - RAIL	
CIVIL - HYDROLOGY	
GROSVENOR CREEK - POST VELOCITY (Q50)	
PROJECT No.	CARP12033
DRG No.	CARP12033-1000-DWG-C-389
REV	0